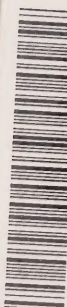




Ministry of
Transportation and
Communications

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Provincial Highways

Permanent

1984

Counting

Stations

Annual Report





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Planning
Office

Provincial Highways

Permanent Counting Stations

Including:

Ferry Crossings

Border Crossings

Service Centres

Annual Report 1984

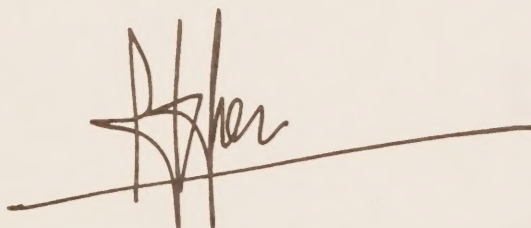
Program Planning Information Section
Traffic Characteristics Group
June, 1985



PREFACE

Traffic Volumes are the *raison d'être* of transportation engineering and the most continuous and diverse information is obtained from a system of Permanent Counting Stations, some of which have been in existence since the early 1960's. During 1984/85, most of MTC's stations have been converted to data transmission by telemetry which, when performing to specifications, will assist in obtaining more and better data in the future.

The P.C.S. Report is an annual publication that is produced mainly for Ministry purposes but is also used extensively by municipalities, consulting firms and institutions. This year's issue has been restructured to provide a better understanding of the data and ease of locating it.

A handwritten signature in dark ink, appearing to read 'R.K. Kher', is written over a long, thin horizontal line that extends across the page.

R.K. Kher,
Manager,
Highway Program Planning
Office.

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Permanent Counting Stations (P C S)

INTRODUCTION

Permanent Counting Stations

Permanent Counting Stations are operated continuously throughout the year at select locations to gather hourly traffic volumes. From the data obtained at each P.C.S., various traffic characteristics are analysed to determine the traffic pattern. The locations of the P.C.S. are selected to identify the major traffic patterns found on the Provincial Highways network. The major traffic patterns and their associated characteristics form the firm foundation which is necessary for the interpretation and application of short term, seasonal count data.

Permanent Counting Stations consist of electromagnetic detectors embedded in the road surface and traffic count recording devices housed in huts or cabinets at roadside. As of December 1984, nine stations employed electromechanical traffic counters with punch paper tape: four stations used microchip based portable traffic counters: and, five stations used Model 170 Controllers with data transmission links to a mini computer.

1984 P.C.S. Data

During 1984, eighteen P.C.S. were in operation to provide traffic volume and pattern data. In some cases, exogenous factors such as weather, construction, mechanical failure, etc. made it necessary to estimate inappropriate or missing daily volumes. At one location, Keele P.C.S., the numerous equipment and detection breakdowns resulted in estimation of a majority of the year. The data was not considered reliable and no information can be provided for this P.C.S. this year.

Since the year 1984 was one of transition for data collection and analysis, it was necessary to make changes, for this year only, in the types of information presented. The maximum hourly volumes could not be obtained for each month, so the AWD and AWD/AADT factors are presented. With the loss of the capability to extract hourly data went the ability to determine the Design Hour Volume. Seasonal variation curves have been added this year to better illustrate the AWD and ADT relationships to the AADT. These curves are presented on the page opposite each P.C.S. report.

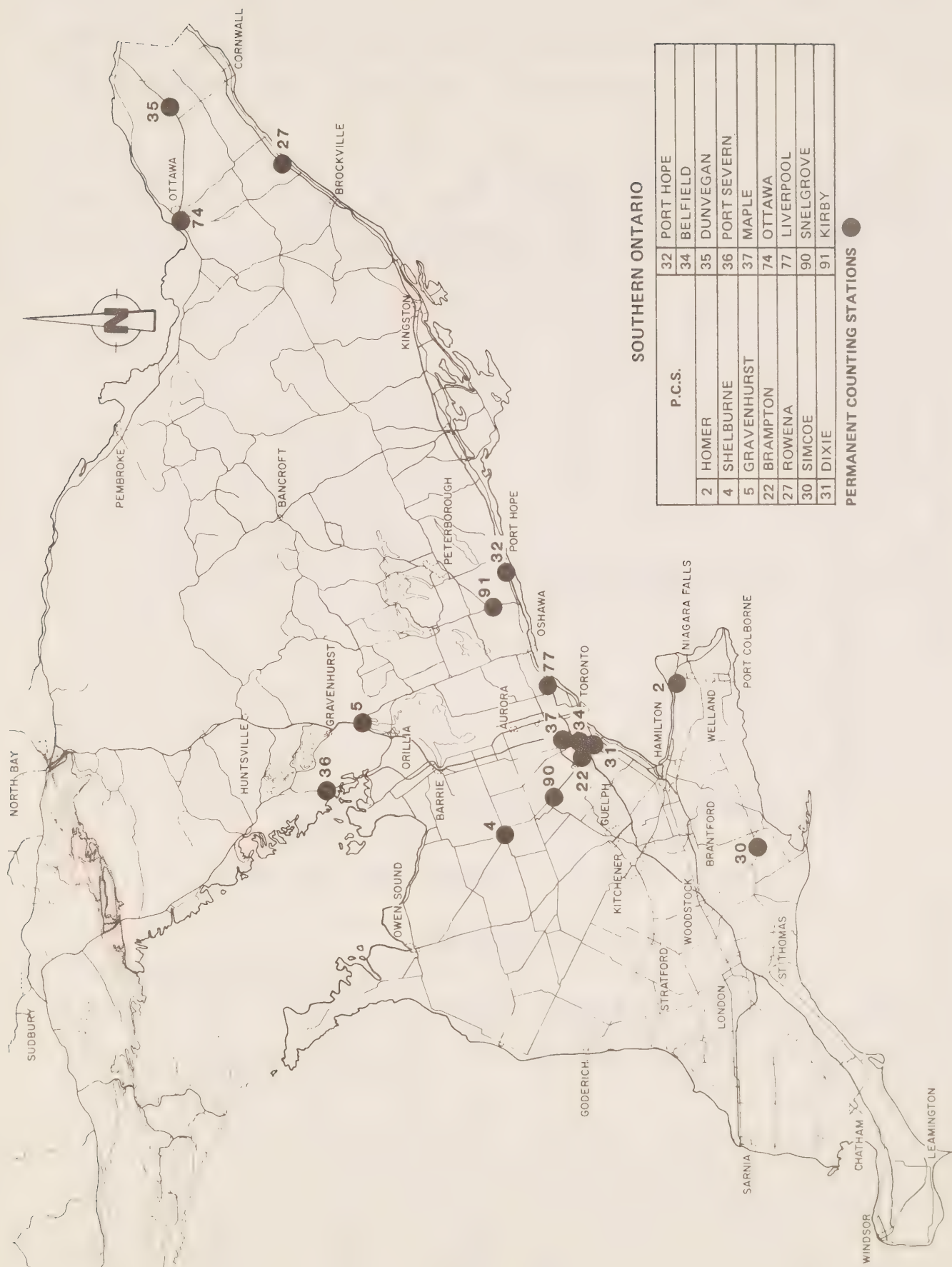
The P.C.S. have been used, as one piece of the larger puzzle, to gain some understanding of travel demand in relationship to social and economic changes. The 1984 P.C.S. data shows the traffic volume recovery, which started in late 1983, has been sustained and the growth in traffic has resulted in values approximately equal to or higher than pre-recession levels at all but one location: Nipigon (33) where recovery started late in 1984.



NORTHERN ONTARIO

P.C.S.	
33	NIPIGON

PERMANENT COUNTING STATIONS



SOUTHERN ONTARIO

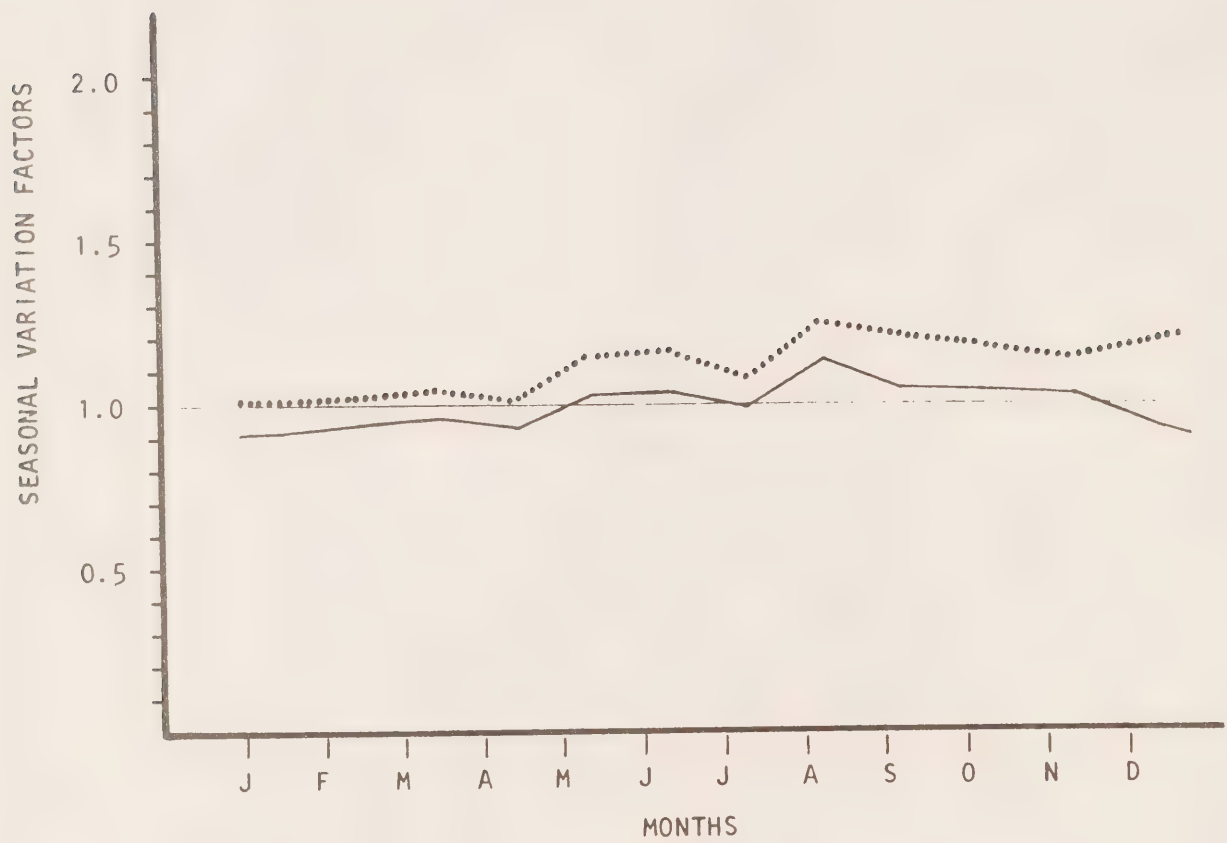
P.C.S.		32	PORT HOPE
2	HOMER	34	BELFIELD
4	SHELburnE	35	DUNVEGAN
5	GRAVENHURST	36	PORT SEVERN
22	BRAMPTON	37	MAPLE
27	ROWENA	74	OTTAWA
30	SIMCOE	77	LIVERPOOL
31	DIXIE	90	SNELGROVE
		91	KIRBY

PERMANENT COUNTING STATIONS ●

SEASONAL VARIATION CURVES

PCS NAME: Belfield PCS NO. 34

YEAR: 1984 PATTERN TYPE: Unclassified



$\frac{ADT}{AADT}$ = —————

$\frac{AWD}{AADT}$ =

PERMANENT COUNTING STATION

P.C.S. NAME: Belfield P.C.S. NO. 34 HIGHWAY: 409

LOCATION: Imm. N. of Airport Rd. - Cty. Rd. 7

DATA FOR YEAR: 1984 PATTERN TYPE: Unclassified

MONTH	ADT	ADT/ AADT FACTOR	AWD	AWD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	36,512	0.905	40,569	1.010	THU	5	43,337
FEB	37,602	0.939	40,929	1.019	THU	16	45,842
MAR	39,315	0.971	41,941	1.044	FRI	2	49,361
APR	37,019	0.924	40,327	1.004	WED	25	43,627
MAY	41,627	1.026	45,912	1.142	THU	31	49,605
JUN	42,532	1.035	47,437	1.180	THU	14	50,777
JUL	40,520	0.998	44,126	1.098	THU	26	47,921
AUG	46,050	1.130	49,991	1.244	MON	20	58,319
SEP	44,034	1.058	48,393	1.204	THU	20	51,218
OCT	42,148	1.056	47,905	1.192	THU	11	50,664
NOV	41,319	1.029	46,296	1.152	TUE	20	48,078
DEC	44,575	0.928	48,051	1.193	THU	20	54,550

ANNUAL AVERAGE DAILY TRAFFIC 40,179

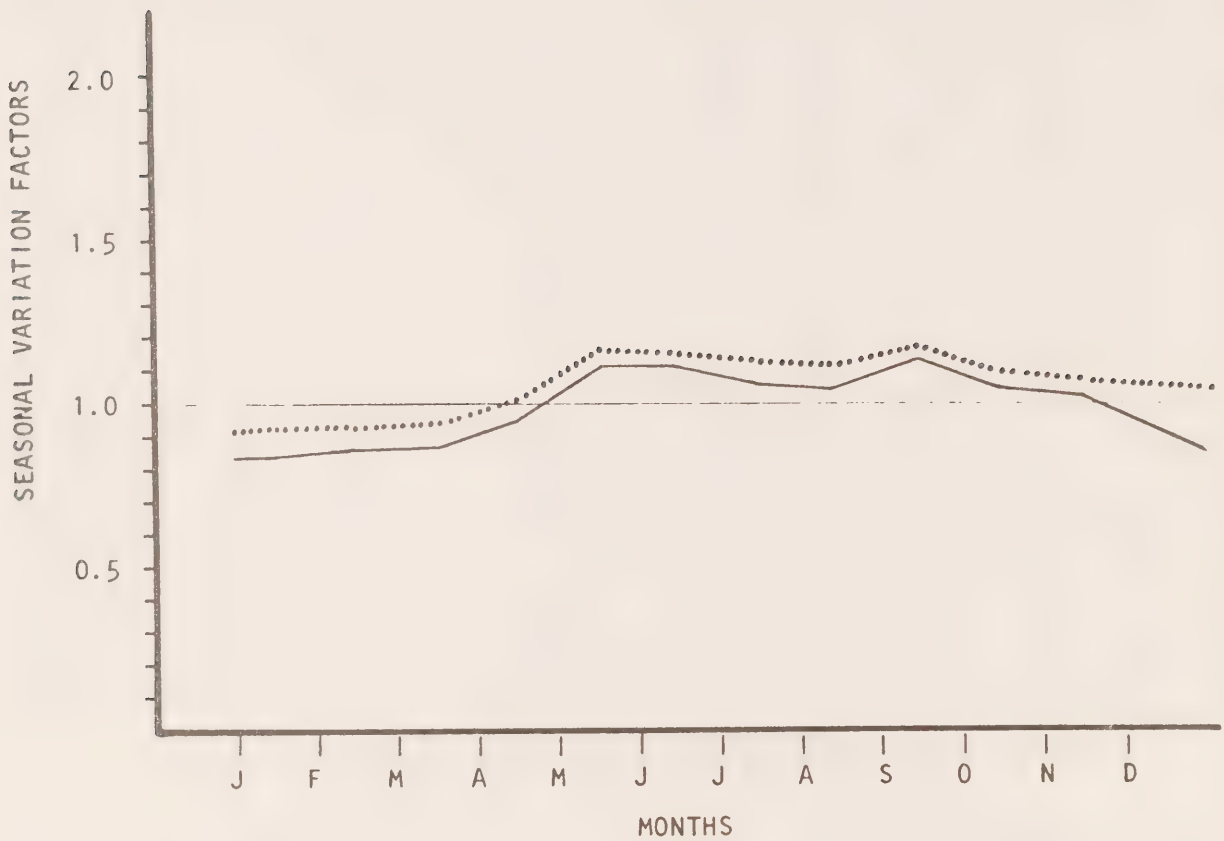
DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960						
1965						
1970						
1975						
1980						
1981	37,072	-	-	-	-	-
1982	35,458	- 4.4	45,958	4,473	3,922	11.1
1983	35,785	+ 0.9	47,332	5,972	3,969	11.1
1984	40,179	+10.9	58,319	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Brampton PCS NO. 22

YEAR: 1984 PATTERN TYPE: Suburban Commuter



$\frac{ADT}{AADT} = \text{———}$

$\frac{AWD}{AADT} = \text{.....}$

PERMANENT COUNTING STATION

P.C.S. NAME: Brampton P.C.S. NO. 22 HIGHWAY: 7

LOCATION: 0.3 km W. of Hwy. 50

DATA FOR YEAR: 1984 PATTERN TYPE: Suburban Commuter

MONTH	ADT	ADT/ AADT FACTOR	AWD	AWD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	23,650	0.837	25,728	0.920	TUE	31	26,568
FEB	24,525	0.880	26,200	0.937	TUE	14	28,192
MAR	24,724	0.879	26,527	0.949	THU	15	27,488
APR	26,647	0.954	28,203	1.009	MON	23	29,618
MAY	31,107	1.103	32,831	1.174	THU	10	35,609
JUN	31,497	1.118	32,568	1.163	THU	28	35,684
JUL	30,116	1.077	31,708	1.134	THU	12	33,048
AUG	30,302	1.060	31,545	1.128	SUN	26	33,222
SEP	32,353	1.136	33,138	1.182	SUN	9	39,822
OCT	29,533	1.039	31,039	1.110	THU	4	32,117
NOV	28,229	1.008	30,223	1.081	THU	1	31,041
DEC	29,064	0.911	30,069	1.075	WED	5	30,290

ANNUAL AVERAGE DAILY TRAFFIC 27,959

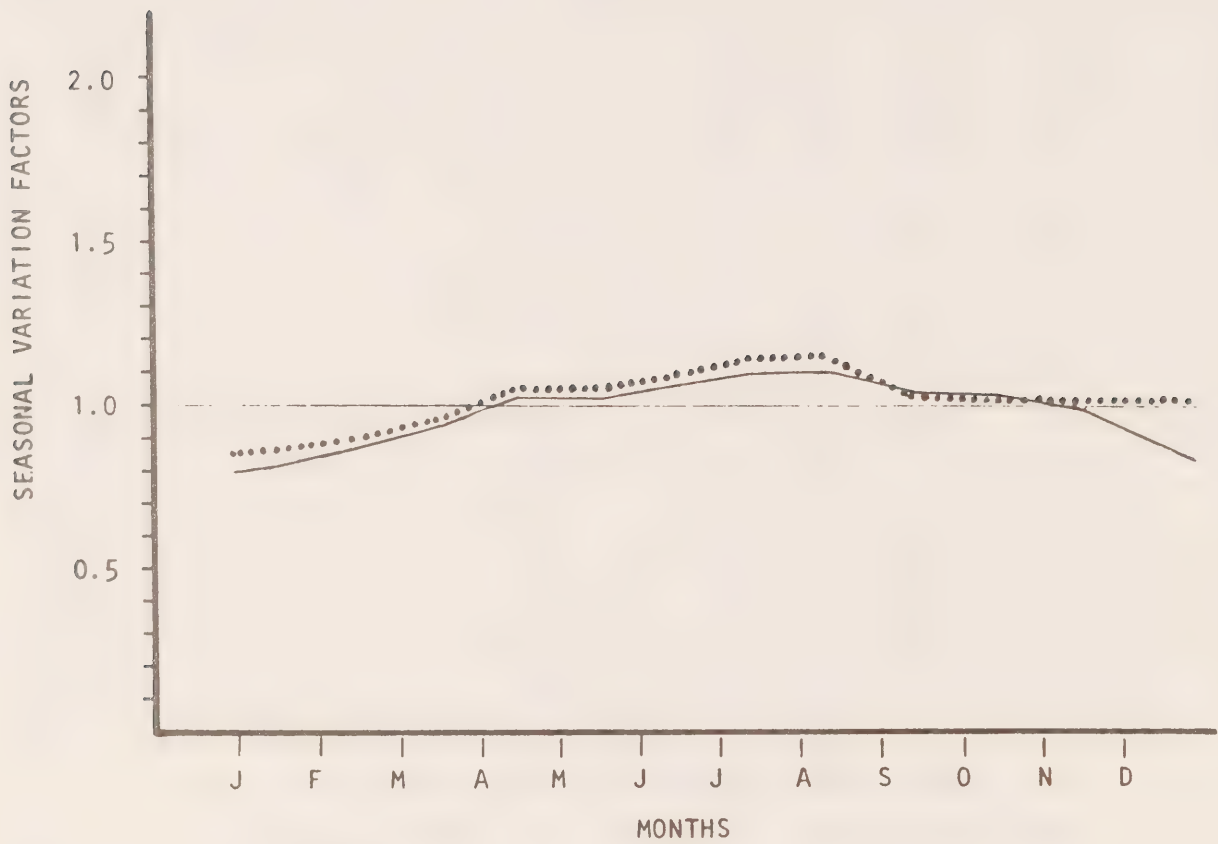
DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960	5,369					
1965	6,896		12,407	1,216	911	13.2
1970	9,250		17,802	1,434	1,221	13.2
1975	21,791		28,142	3,293	2,894	13.2
1980	23,658		29,420	3,493	3,029	12.8
1981	25,372	+7.2	32,461	3,577	3,172	12.5
1982	25,307	-0.2	31,193	3,401	3,230	12.7
1983	27,131	+6.7	33,886	3,637	3,370	12.4
1984	27,959	+3.0	39,822	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Dixie PCS NO. 31

YEAR: 1984 PATTERN TYPE: Commuter



$\frac{ADT}{AADT}$ = —————

$\frac{AWD}{AADT}$ =

PERMANENT COUNTING STATION

P.C.S. NAME: Dixie P.C.S. NO. 31 HIGHWAY: 401
 LOCATION: 1.3 km W. of Hwy. 10 U/P
 DATA FOR YEAR: 1984 PATTERN TYPE: Commuter

MONTH	ADT	ADT/ AADT FACTOR	AMD	AMD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	62,035	0.818	65,421	0.872	THU	12	72,212
FEB	66,480	0.887	67,699	0.903	SUN	19	73,091
MAR	70,975	0.942	72,104	0.961	SUN	25	80,651
APR	76,252	1.028	78,782	1.050	SUN	22	87,125
MAY	77,646	1.022	78,860	1.051	MON	21	88,817
JUN	81,040	1.082	83,284	1.111	FRI	29	95,896
JUL	84,344	1.113	85,920	1.146	SAT	7	92,728
AUG	84,628	1.114	85,968	1.146	SUN	19	93,116
SEP	80,100	1.062	79,478	1.058	SUN	9	94,824
OCT	77,720	1.043	77,677	1.036	MON	8	95,383
NOV	74,734	0.999	76,561	1.021	SUN	25	81,953
DEC	73,644	0.889	75,230	1.003	THU	20	79,512

ANNUAL AVERAGE DAILY TRAFFIC 74,989

DESIGN HOUR VOLUME _____ % OF AADT _____

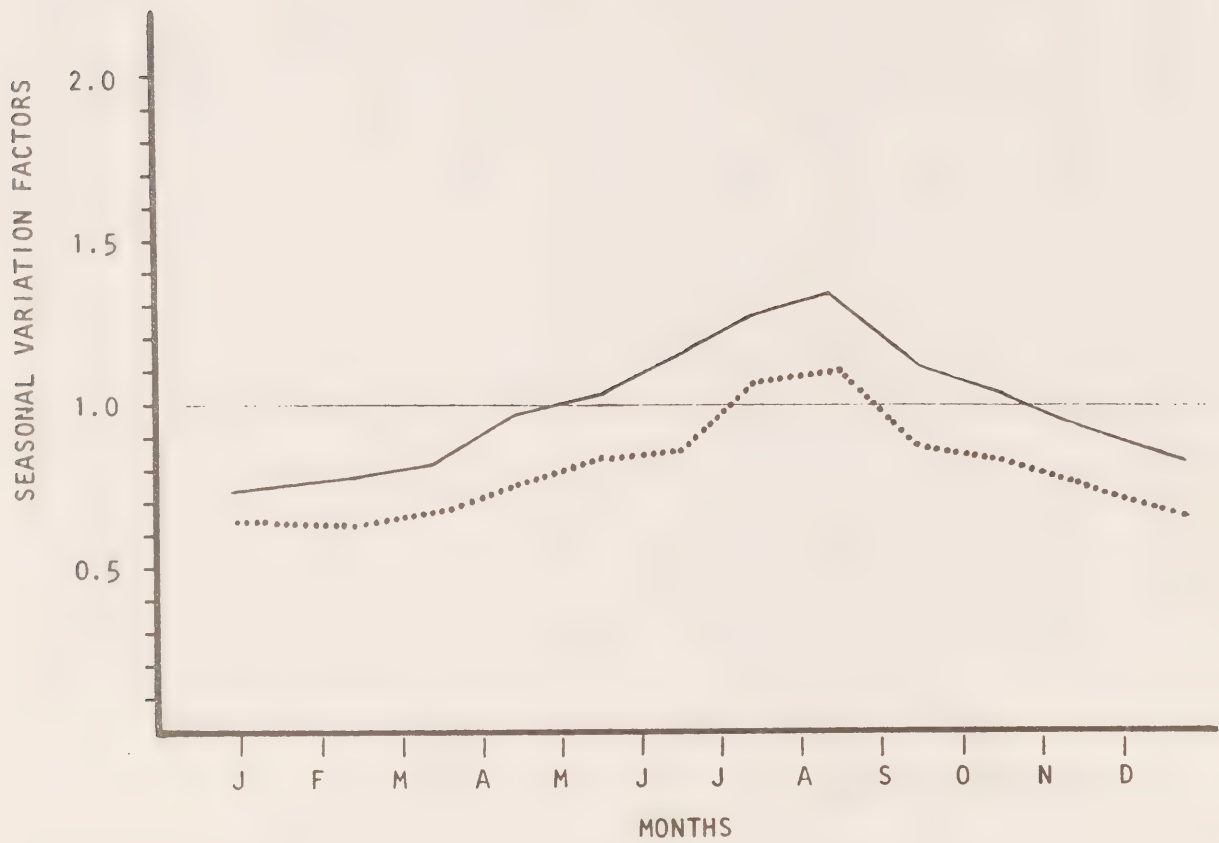
HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960						
1965						
1970						
1975						
1980	69,023		97,282	7,837	721	10.0
1981	69,855	+1.2	95,058	7,916	732	10.0
1982	69,490	-0.5	91,617	7,938	741	10.0
1983	69,577*	+0.1	-	-	-	-
1984	74,989	+7.2	95,896	-	-	-

* Estimate

SEASONAL VARIATION CURVES

PCS NAME: Dunvegan PCS NO. 35

YEAR: 1984 PATTERN TYPE: Intermediate Recreation



$\frac{ADT}{AADT}$ = ———

$\frac{AWD}{AADT}$ =

PERMANENT COUNTING STATION

P.C.S. NAME: Dunvegan P.C.S. NO. 35 HIGHWAY: 417
 LOCATION: 10.1 km W. of S.D. & G. Cty. Rd. 31
 DATA FOR YEAR: 1984 PATTERN TYPE: Intermediate Recreation

MONTH	ADT	ADT/ AADT FACTOR	AWD	AWD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	5,369	0.731	4,994	0.653	SUN	1	10,233
FEB	6,101	0.793	4,964	0.649	SUN	12	9,617
MAR	6,303	0.826	5,245	0.686	SUN	25	9,621
APR	6,870	0.981	5,911	0.770	SUN	22	12,691
MAY	7,622	1.016	6,378	0.834	SUN	13	12,112
JUN	8,562	1.155	7,377	0.872	FRI	29	15,048
JUL	9,534	1.270	8,191	1.070	MON	2	13,241
AUG	9,822	1.310	8,408	1.100	FRI	31	15,063
SEP	7,990	1.108	6,807	0.890	MON	3	14,545
OCT	7,446	1.029	6,324	0.827	MON	8	14,476
NOV	7,036	0.927	5,889	0.769	SUN	4	10,759
DEC	5,897	0.853	5,339	0.695	WED	26	12,134

ANNUAL AVERAGE DAILY TRAFFIC 7,646

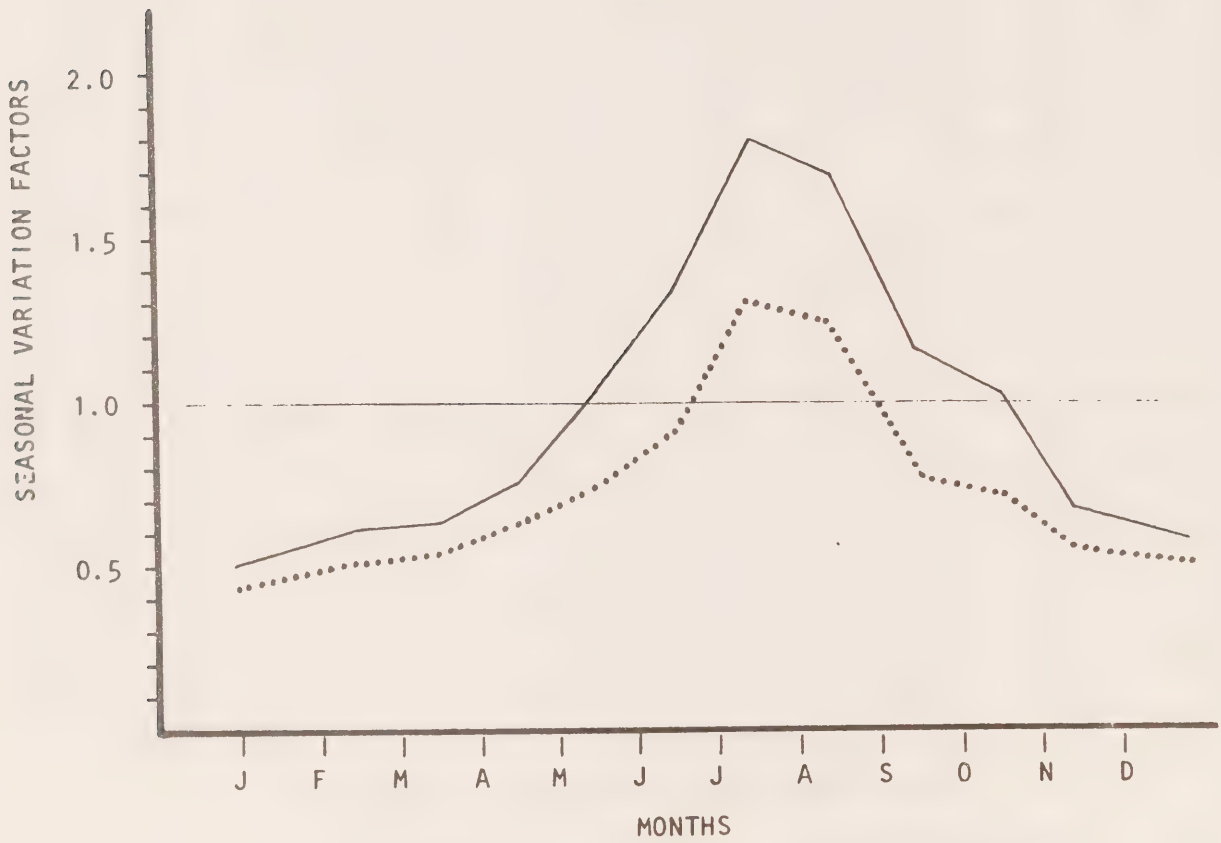
DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960						
1965						
1970						
1975						
1980	6,974		13,279	1,278	996	14.2
1981	7,057	+1.1	13,708	1,340	1,015	14.3
1982	6,880	-2.5	13,708	1,361	1,049	15.2
1983	7,220	+4.7	14,659	1,313	1,073	14.9
1984	7,646	+5.6	15,063	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Gravenhurst PCS NO. 5

YEAR: 1984 PATTERN TYPE: Low Recreation



$\frac{ADT}{AADT} = \text{———}$

$\frac{AWD}{AADT} = \text{.....}$

PERMANENT COUNTING STATION

P.C.S. NAME: Gravenhurst P.C.S. NO. 5 HIGHWAY: 11
 LOCATION: 3.5 km N. of Severn River Bridge
 DATA FOR YEAR: 1984 PATTERN TYPE: Low Recreation

MONTH	ADT	ADT/ AADT FACTOR	AWD	AWD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	6,642	0.553	5,722	0.462	SUN	1	12,259
FEB	7,588	0.611	6,304	0.509	SUN	12	12,023
MAR	7,745	0.628	6,839	0.553	FRI	9	11,649
APR	9,033	0.791	7,827	0.631	THU	19	19,768
MAY	11,607	1.036	9,440	0.761	FRI	18	32,810
JUN	15,298	1.342	11,102	0.906	SAT	30	40,355
JUL	21,861	1.806	16,398	1.321	SUN	1	36,371
AUG	20,664	1.700	15,445	1.248	FRI	31	36,885
SEP	13,358	1.196	9,833	0.794	MON	3	36,547
OCT	11,108	1.030	8,792	0.707	FRI	5	34,237
NOV	8,624	0.696	7,094	0.571	SUN	4	13,372
DEC	6,794	0.609	6,329	0.511	WED	26	13,044

ANNUAL AVERAGE DAILY TRAFFIC 12,372

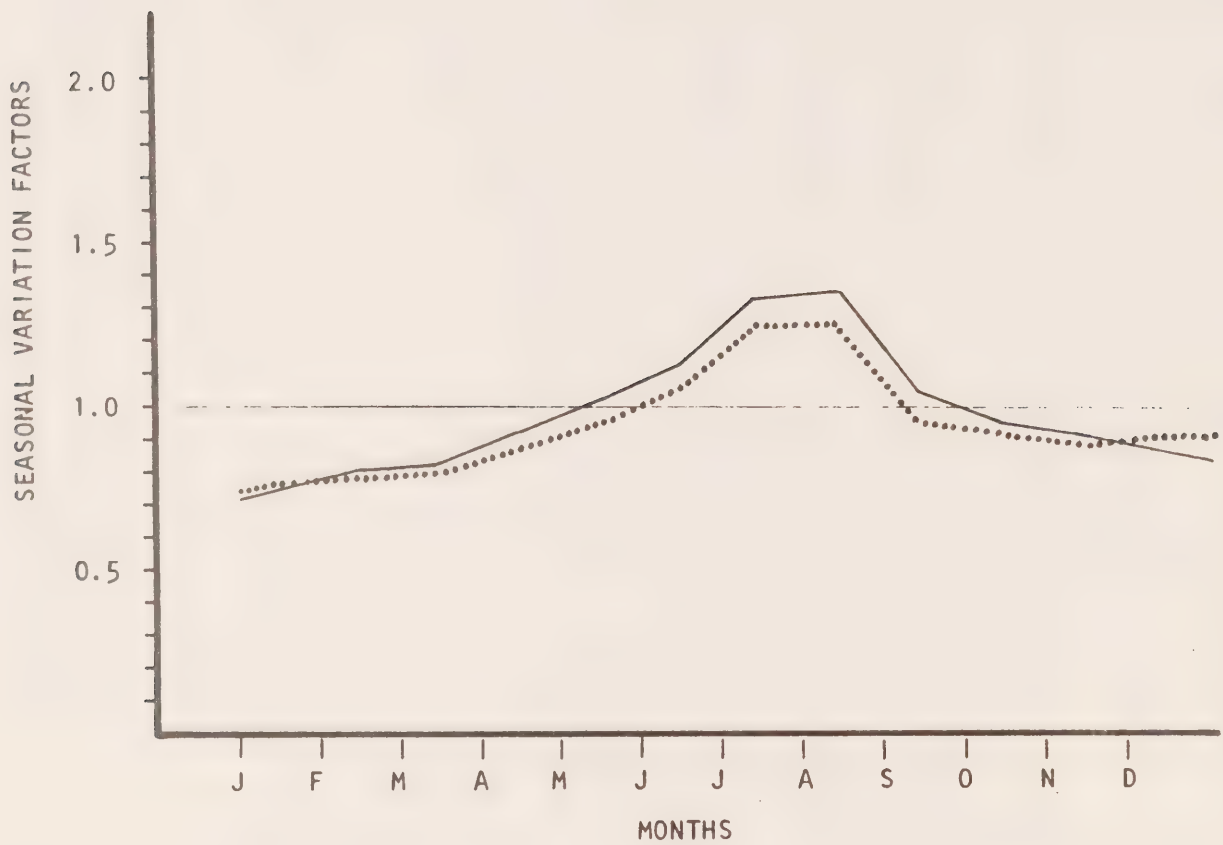
DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960	5,230					
1965	6,660		27,225	2,167	1,663	25.0
1970	8,769		33,456	2,708	2,109	24.1
1975	11,262		41,666	3,381	2,714	24.0
1980	12,276		43,279	3,523	2,904	23.6
1981	11,647	-5.1	36,823	3,637	2,803	24.0
1982	11,921	+2.3	42,861	3,587	2,999	25.1
1983	12,381	+3.7	42,328	3,650	2,999	24.2
1984	12,372	-0.1	40,355	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Homer PCS NO. 2

YEAR: 1984 PATTERN TYPE: Commuter Tourist Recreation



$\frac{ADT}{AADT} = \text{—}$

$\frac{AWD}{AADT} = \text{.....}$

PERMANENT COUNTING STATION

P.C.S. NAME: Homer P.C.S. NO. 2 HIGHWAY: QEW

LOCATION: 1.1 km N. of Mountain Rd. IC

DATA FOR YEAR: 1984 PATTERN TYPE: Commuter Tourist Recreation

MONTH	ADT	ADT/ AADT FACTOR	AMD	AMD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	23,454	0.748	23,600	0.753	FRI	13	25,187
FEB	25,363	0.810	24,697	0.788	FRI	17	30,335
MAR	25,987	0.832	25,131	0.802	FRI	9	32,243
APR	29,044	0.939	28,085	0.895	THU	19	36,323
MAY	32,217	1.025	30,249	0.964	SUN	27	42,011
JUN	35,149	1.143	33,235	1.059	FRI	29	47,865
JUL	41,425	1.327	39,154	1.249	SUN	22	46,803
AUG	42,251	1.367	39,825	1.271	FRI	3	49,297
SEP	32,127	1.060	30,388	0.970	SAT	1	45,766
OCT	30,284	0.971	29,173	0.930	SUN	14	36,193
NOV	28,398	0.903	27,532	0.879	SUN	25	32,999
DEC	28,484	0.876	28,518	0.908	WED	26	31,987

ANNUAL AVERAGE DAILY TRAFFIC 31,337

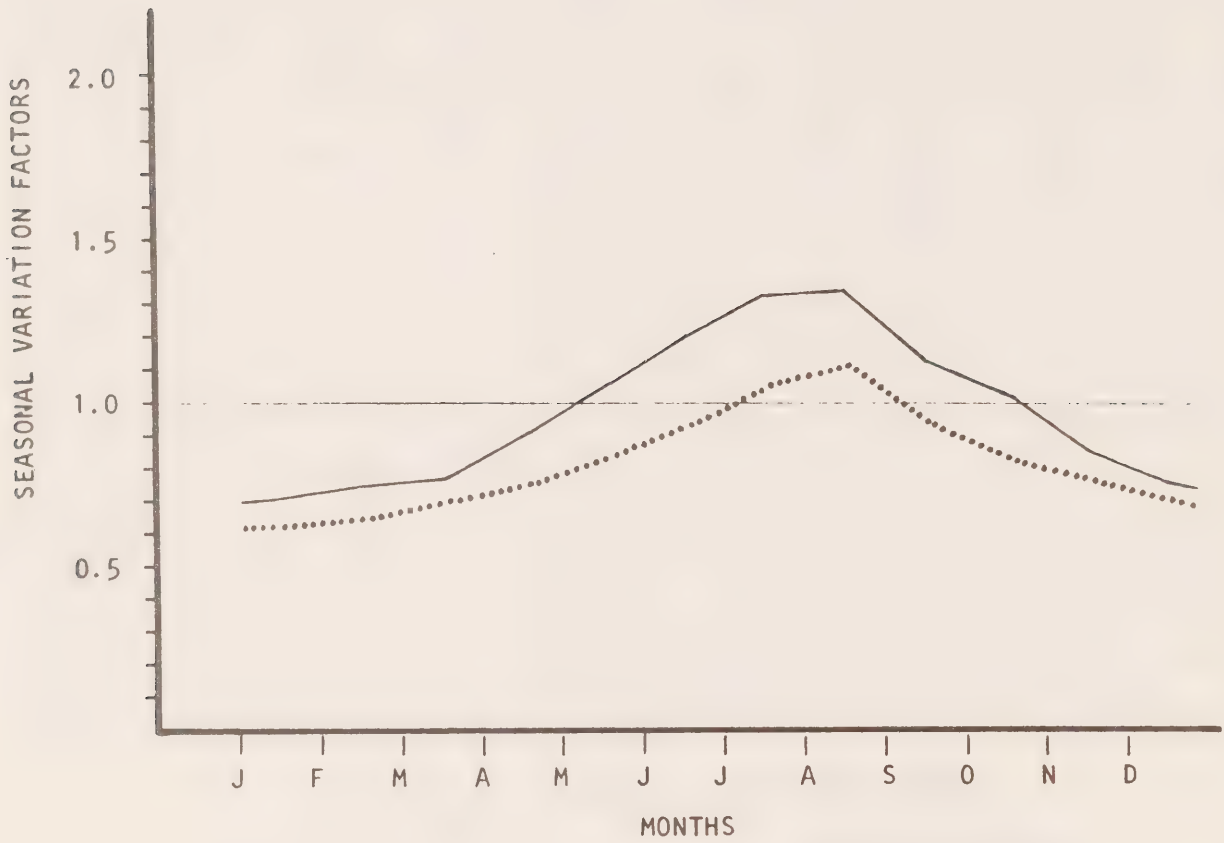
DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960	14,260					
1965	18,648		35,091	2,683	2,349	12.6
1970	18,991		36,677	3,034	2,576	13.6
1975	23,489		40,399	3,323	2,904	12.3
1980	28,743		52,595	4,202	3,407	11.8
1981	28,564	-0.6	49,480	3,718	3,306	11.5
1982	28,480	-0.2	47,297	3,563	3,174	11.1
1983	29,980	+5.0	48,913	3,537	3,266	10.9
1984	31,337	+4.3	49,297	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Kirby PCS NO. 91

YEAR: 1984 PATTERN TYPE: Intermediate Recreation



$\frac{ADT}{AADT}$ = —————

$\frac{AWD}{AADT}$ =

PERMANENT COUNTING STATION

P.C.S. NAME: Kirby P.C.S. NO. 91 HIGHWAY: 35

LOCATION: 4.3 km N. of Durham Reg. Rd. 4

DATA FOR YEAR: 1984 PATTERN TYPE: Intermediate Recreation

MONTH	ADT	ADT/ AADT FACTOR	AWD	AWD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	8,259	0.713	7,403	0.633	SUN	29	11,175
FEB	8,964	0.765	7,962	0.681	SUN	26	12,452
MAR	9,259	0.794	8,208	0.702	SUN	18	12,346
APR	10,399	0.920	9,180	0.784	SUN	22	16,856
MAY	12,122	1.075	10,126	0.865	FRI	18	22,193
JUN	13,692	1.218	11,051	0.945	FRI	29	22,771
JUL	15,380	1.333	12,550	1.073	MON	2	22,714
AUG	15,364	1.361	12,918	1.105	FRI	3	23,357
SEP	12,898	1.146	10,968	0.938	SUN	9	18,574
OCT	11,143	1.006	9,707	0.830	FRI	5	21,129
NOV	10,083	0.874	9,233	0.789	FRI	2	13,336
DEC	9,350	0.795	8,627	0.738	SUN	2	13,051

ANNUAL AVERAGE DAILY TRAFFIC 11,685

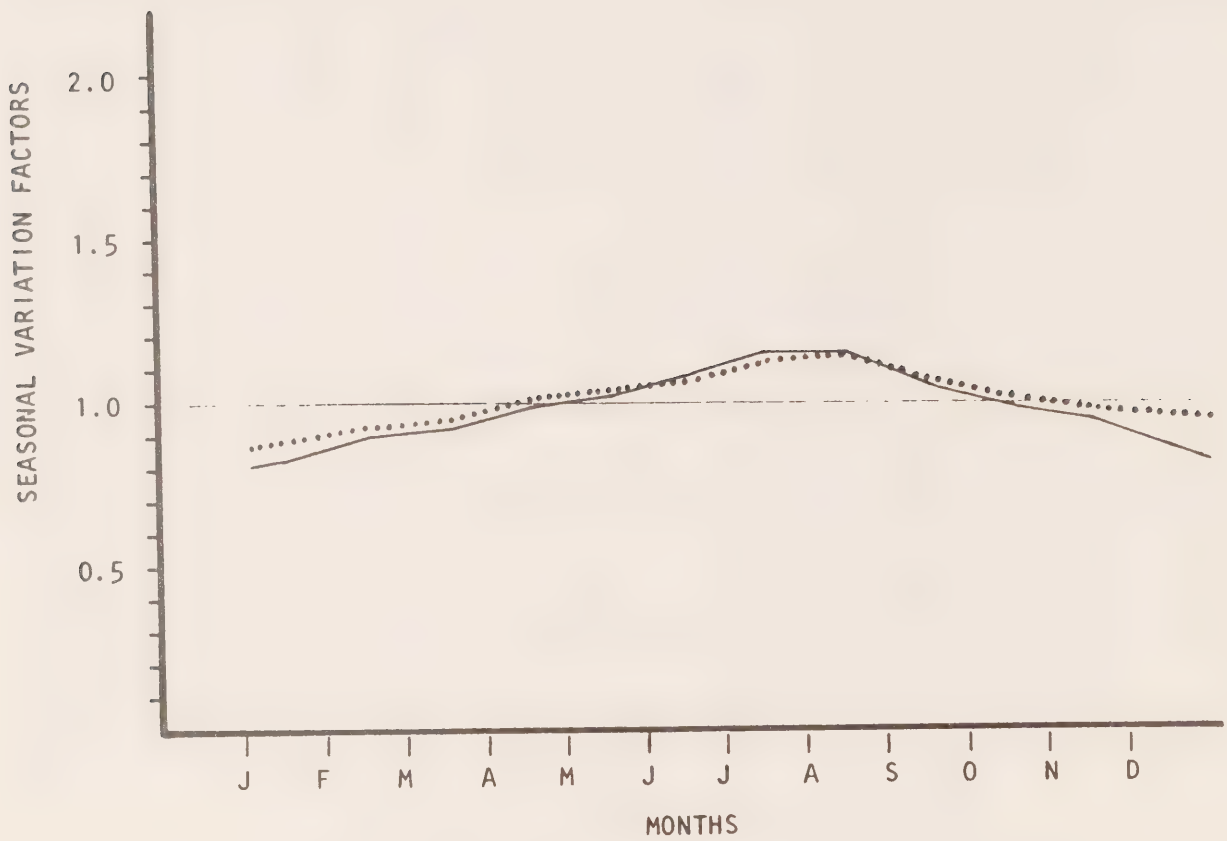
DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960						
1965						
1970						
1975	10,254		23,357	1,697	1,545	15.0
1980	10,961		23,955	1,920	1,644	14.9
1981	10,979	+0.1	21,067	1,904	1,663	15.1
1982	10,852	-1.1	23,063	1,865	1,682	15.4
1983	11,391	+4.7	24,138	2,032	1,730	15.2
1984	11,685	+2.5	24,771	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Liverpool PCS NO. 77

YEAR: 1984 PATTERN TYPE: Commuter



$\frac{ADT}{AADT} = \text{———}$

$\frac{AWD}{AADT} = \text{.....}$

PERMANENT COUNTING STATION

P.C.S. NAME: Liverpool P.C.S. NO. 77 HIGHWAY: 401

LOCATION: 0.6 km W. of Durham Region Rd. 29

DATA FOR YEAR: 1984 PATTERN TYPE: Commuter

MONTH	ADT	ADT/ AADT FACTOR	AWD	AWD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	77,027	0.829	81,988	0.882	THU	26	84,921
FEB	83,817	0.903	87,141	0.937	THU	16	91,851
MAR	86,951	0.931	90,357	0.964	THU	29	98,197
APR	91,802	0.993	94,235	1.013	SUN	29	102,383
MAY	95,608	1.027	96,601	1.039	MON	21	110,212
JUN	100,403	1.087	100,023	1.073	FRI	29	128,756
JUL	109,128	1.168	107,076	1.152	SUN	8	128,768
AUG	107,760	1.164	108,092	1.163	FRI	3	128,674
SEP	98,378	1.055	99,131	1.066	MON	3	118,115
OCT	91,774	0.998	94,549	1.017	FRI	5	121,497
NOV	89,040	0.958	92,229	0.992	FRI	2	97,372
DEC	87,862	0.887	90,686	0.976	THU	20	98,607

ANNUAL AVERAGE DAILY TRAFFIC 92,963

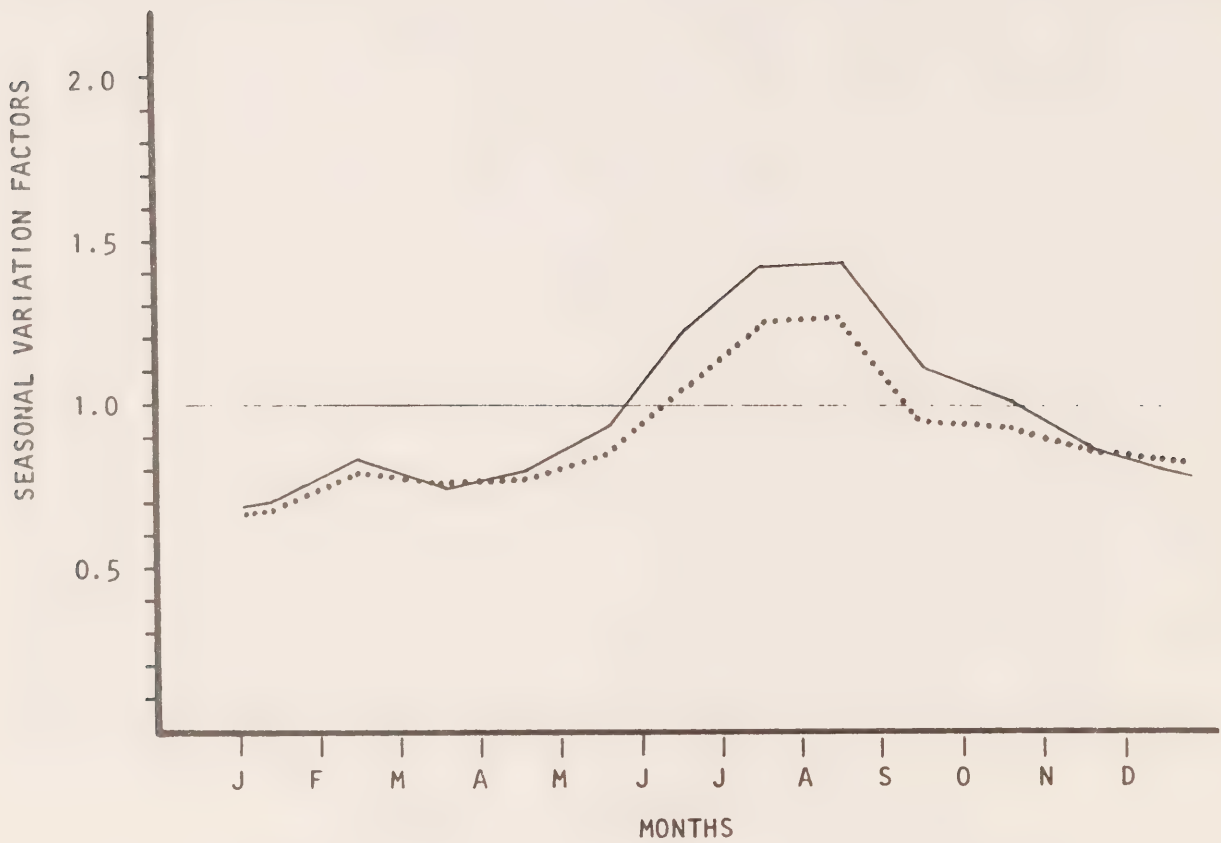
DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960						
1965						
1970	49,313		90,660	7,107	5,568	11.0
1975	66,449		99,490	7,935	6,948	10.0
1980	84,856		120,176	11,082	8,593	10.0
1981	87,419	+2.9	122,359	10,977	8,834	10.0
1982	88,712	+1.4	125,971	9,568	9,206	10.0
1983	91,959	+3.5	126,454	9,935	9,224	10.1
1984	92,963	+1.1	128,768	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Maple PCS NO. 37

YEAR: 1984 PATTERN TYPE: Commuter Recreation



$\frac{ADT}{AADT}$ = ———

$\frac{AWD}{AADT}$ =

PERMANENT COUNTING STATION

P.C.S. NAME: Maple P.C.S. NO. 37 HIGHWAY: 400

LOCATION: 1.8 km N. of Hwy. 7

DATA FOR YEAR: 1984 PATTERN TYPE: Commuter Recreation

MONTH	ADT	ADT/ AADT FACTOR	AWD	AWD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	36,824	0.704	36,048	0.680	SUN	1	48,809
FEB	44,521	0.839	42,542	0.801	SUN	12	59,114
MAR	40,403	0.760	40,387	0.762	SUN	11	49,389
APR	43,265	0.804	41,545	0.783	SUN	29	57,574
MAY	49,585	0.944	45,308	0.854	FRI	11	56,500
JUN	63,782	1.235	56,725	1.069	FRI	29	99,596
JUL	73,432	1.434	67,006	1.262	SUN	22	100,538
AUG	75,070	1.448	68,024	1.283	MON	6	112,404
SEP	57,523	1.112	51,808	0.977	SUN	9	76,095
OCT	52,273	1.012	49,895	0.941	FRI	5	82,336
NOV	47,683	0.896	47,352	0.893	SUN	4	55,232
DEC	45,391	0.813	45,217	0.852	WED	26	56,059

ANNUAL AVERAGE DAILY TRAFFIC 53,016

DESIGN HOUR VOLUME _____ % OF AADT _____

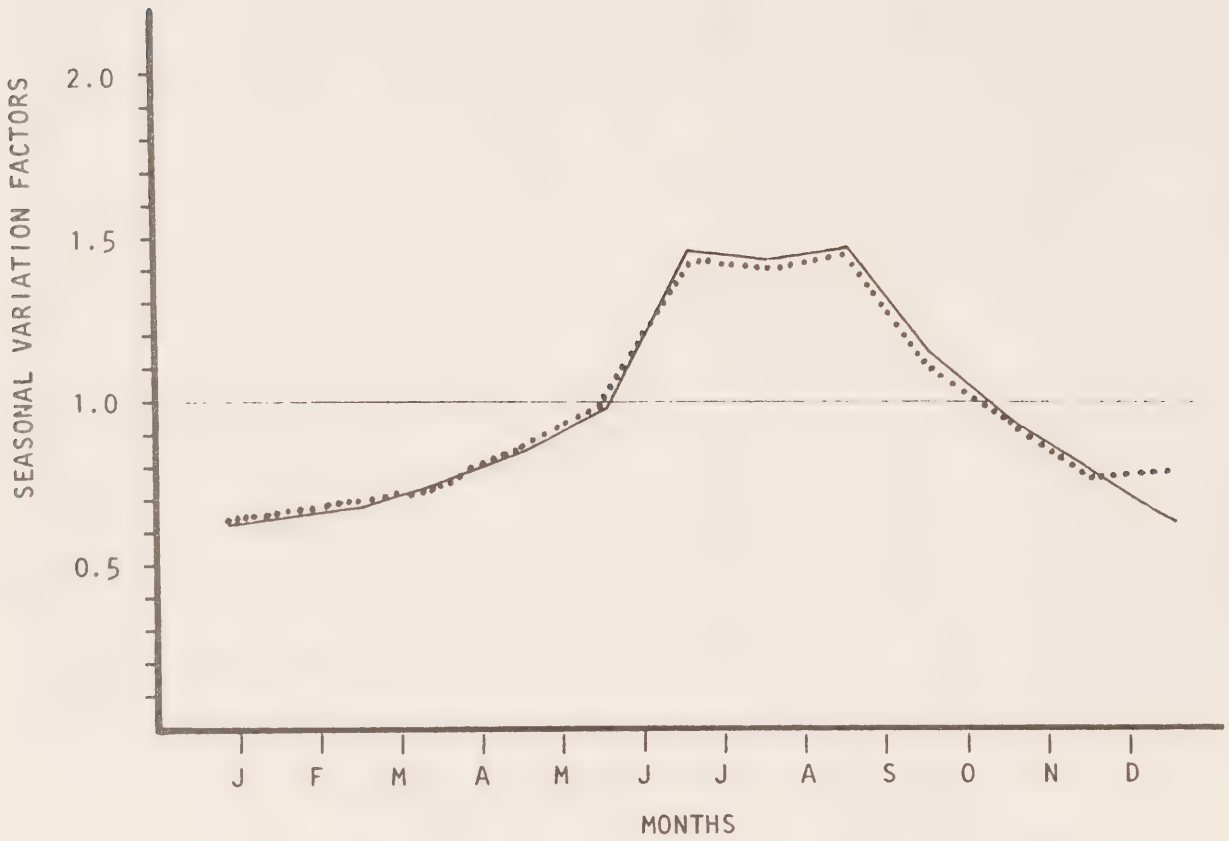
HISTORICAL DATA

YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960	17,996					
1965	19,788		43,950	3,610	3,060	15.5
1970	28,479		59,757	4,035	3,691	13.0
1975	39,251		80,184	5,301	5,301	13.5
1980	46,830		89,340	6,687	6,009	13.0
1981	47,305	+1.0	87,792	6,761	5,923	12.5
1982	46,958	-0.7	88,774	7,373	6,228	13.2
1983	48,181	+2.5	97,080	7,103	6,353	13.2
1984	53,016	+9.1	112,404	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Nipigon PCS NO. 33

YEAR: 1984 PATTERN TYPE: Low Tourist



$\frac{ADT}{AADT}$ = —————

$\frac{AWD}{AADT}$ =
.....

PERMANENT COUNTING STATION

P.C.S. NAME: Nipigon P.C.S. NO. 33 HIGHWAY: 11

LOCATION: 4.7 Km S. of Hwy. 628

DATA FOR YEAR: 1984 PATTERN TYPE: Low Tourist

MONTH	ADT	ADT/ AADT FACTOR	AMD	AMD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	1,905	0.642	1,958	0.660	FRI	27	2,243
FEB	2,016	0.681	2,046	0.690	FRI	17	2,413
MAR	2,242	0.756	2,228	0.751	FRI	30	2,701
APR	2,570	0.861	2,575	0.868	THU	19	3,117
MAY	3,014	0.993	2,974	0.998	THU	31	3,809
JUN	4,362	1.483	4,343	1.458	FRI	29	5,434
JUL	4,254	1.449	4,224	1.423	FRI	27	5,012
AUG	4,428	1.495	4,398	1.141	FRI	17	5,505
SEP	3,441	1.179	3,406	1.148	MON	3	4,431
OCT	2,840	0.966	2,870	0.962	FRI	5	3,807
NOV	2,366	0.800	2,333	0.785	FRI	2	2,891
DEC	2,304	0.696	2,356	0.793	FRI	21	2,758

ANNUAL AVERAGE DAILY TRAFFIC 2,966

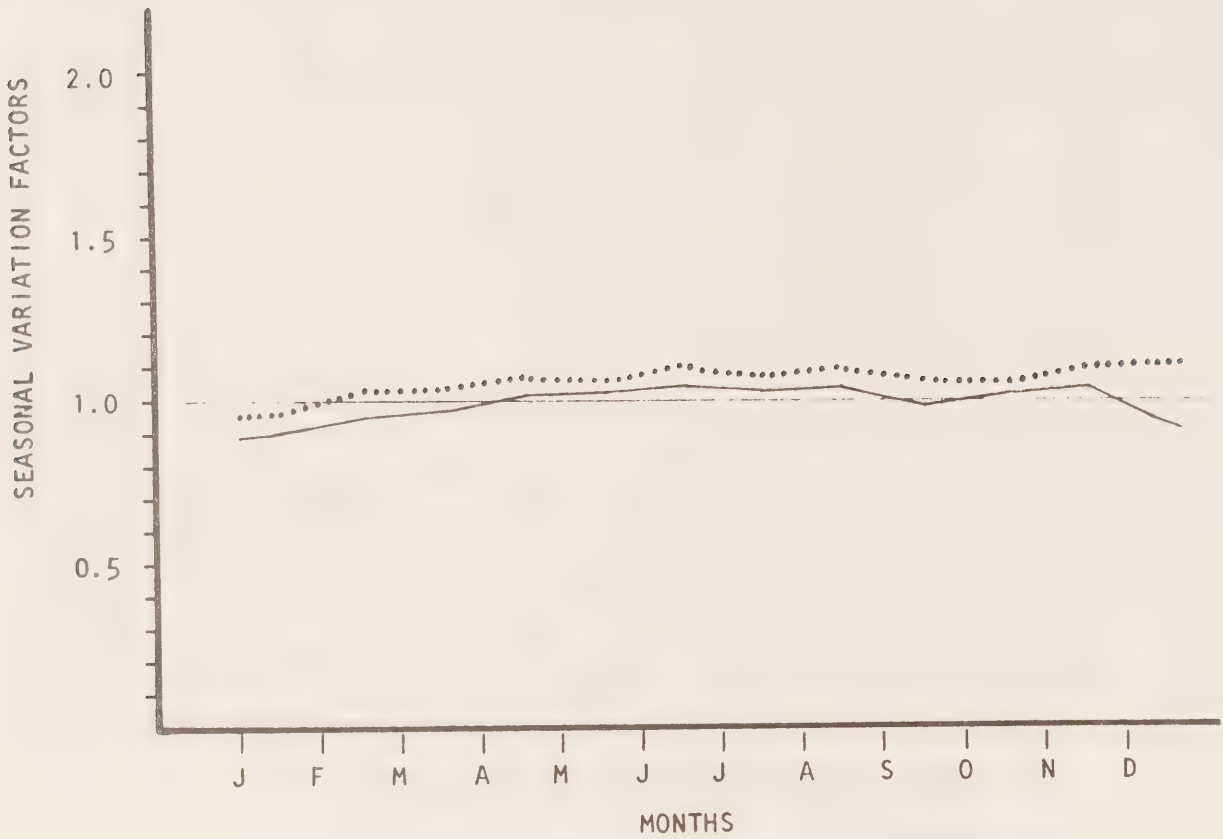
DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960						
1965	1,626		3,645	316	259	15.9
1970	1,952		4,513	379	324	16.6
1975	2,672		5,669	469	410	15.3
1980	3,083		6,034	504	414	13.4
1981	3,269	+ 6.0	6,068	501	439	13.4
1982	2,870	-12.2	5,050	412	363	12.6
1983	2,751	- 4.1	5,050	365	326	11.9
1984	2,966	+ 7.2	5,505	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Ottawa PCS NO. 74

YEAR: 1984 PATTERN TYPE: Urban Commuter



$\frac{ADT}{AADT} = \text{———}$

$\frac{AWD}{AADT} = \text{.....}$

PERMANENT COUNTING STATION

P.C.S. NAME: Ottawa P.C.S. NO. 74 HIGHWAY: 417
 LOCATION: 1.1 km W. of Woodroffe Ave. IC
 DATA FOR YEAR: 1984 PATTERN TYPE: Urban Commuter

MONTH	ADT	ADT/ AADT FACTOR	AMD	AMD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	60,428	0.905	64,745	0.982	THU	26	67,513
FEB	63,893	0.971	67,751	1.028	THU	23	73,158
MAR	65,277	0.987	68,518	1.039	THU	29	75,921
APR	68,214	1.012	71,469	1.084	THU	26	76,503
MAY	67,777	1.018	71,171	1.079	THU	31	76,294
JUN	69,009	1.043	73,412	1.114	THU	28	79,584
JUL	67,981	1.021	72,283	1.096	THU	19	75,593
AUG	68,454	1.034	72,920	1.106	FRI	31	76,279
SEP	67,067	0.993	70,548	1.070	THU	6	76,018
OCT	66,557	1.009	69,751	1.057	THU	18	74,490
NOV	68,980	1.046	73,008	1.107	THU	29	75,877
DEC	70,749	0.961	73,811	1.119	THU	20	82,709

ANNUAL AVERAGE DAILY TRAFFIC 65,921

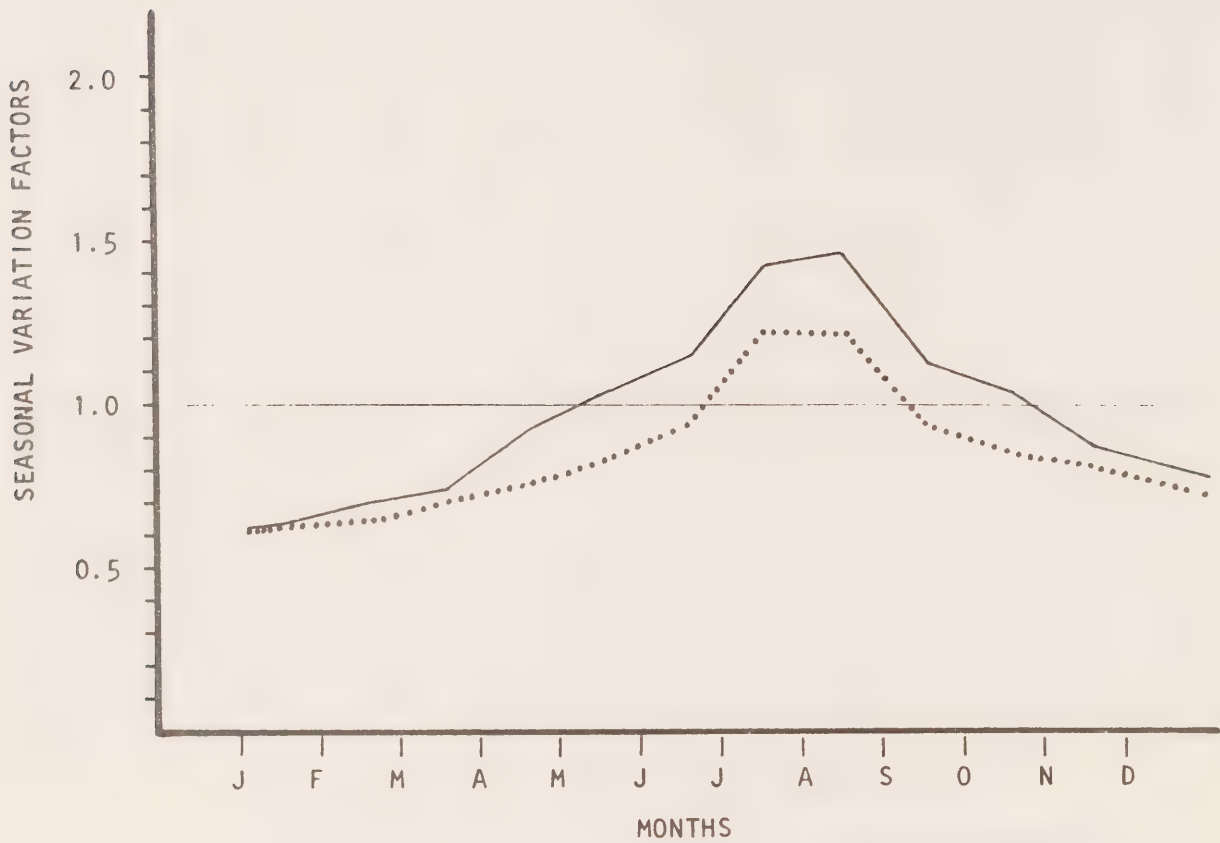
DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960						
1965						
1970	32,559		42,161	5,684	3,890	11.9
1975	50,597		62,698	5,738	5,394	10.6
1980	59,996		74,860	6,638	6,236	10.6
1981	60,844	+1.4	73,703	6,742	6,178	10.2
1982	62,676	+3.0	77,690	6,824	6,512	10.3
1983	64,466	+2.8	79,656	7,419	6,465	10.0
1984	65,921	+2.2	82,709	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Port Hope PCS NO. 32

YEAR: 1984 PATTERN TYPE: Intermediate Recreation



$\frac{ADT}{AADT} = \text{———}$

$\frac{AWD}{AADT} = \text{.....}$

PERMANENT COUNTING STATION

P.C.S. NAME: Port Hope P.C.S. NO. 32 HIGHWAY: 401

LOCATION: 8.8 km W. of Hwy. 2

DATA FOR YEAR: 1984 PATTERN TYPE: Intermediate Recreation

MONTH	ADT	ADT/ AADT FACTOR	AWD	AWD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	16,284	0.643	15,904	0.630	FRI	27	22,293
FEB	17,815	0.705	16,546	0.655	SUN	12	24,266
MAR	19,323	0.765	18,015	0.712	SUN	25	27,869
APR	21,484	0.929	19,501	0.772	SUN	22	44,547
MAY	24,578	1.037	21,873	0.865	FRI	18	63,230
JUN	27,987	1.166	24,538	0.970	FRI	29	60,854
JUL	35,561	1.430	31,430	1.237	MON	2	54,588
AUG	35,145	1.470	30,667	1.215	FRI	3	61,534
SEP	26,887	1.122	23,917	0.947	MON	3	53,788
OCT	23,875	1.032	21,781	0.862	MON	8	53,344
NOV	22,170	0.894	20,281	0.803	FRI	9	31,326
DEC	19,906	0.808	19,482	0.769	FRI	28	31,948

ANNUAL AVERAGE DAILY TRAFFIC 25,244

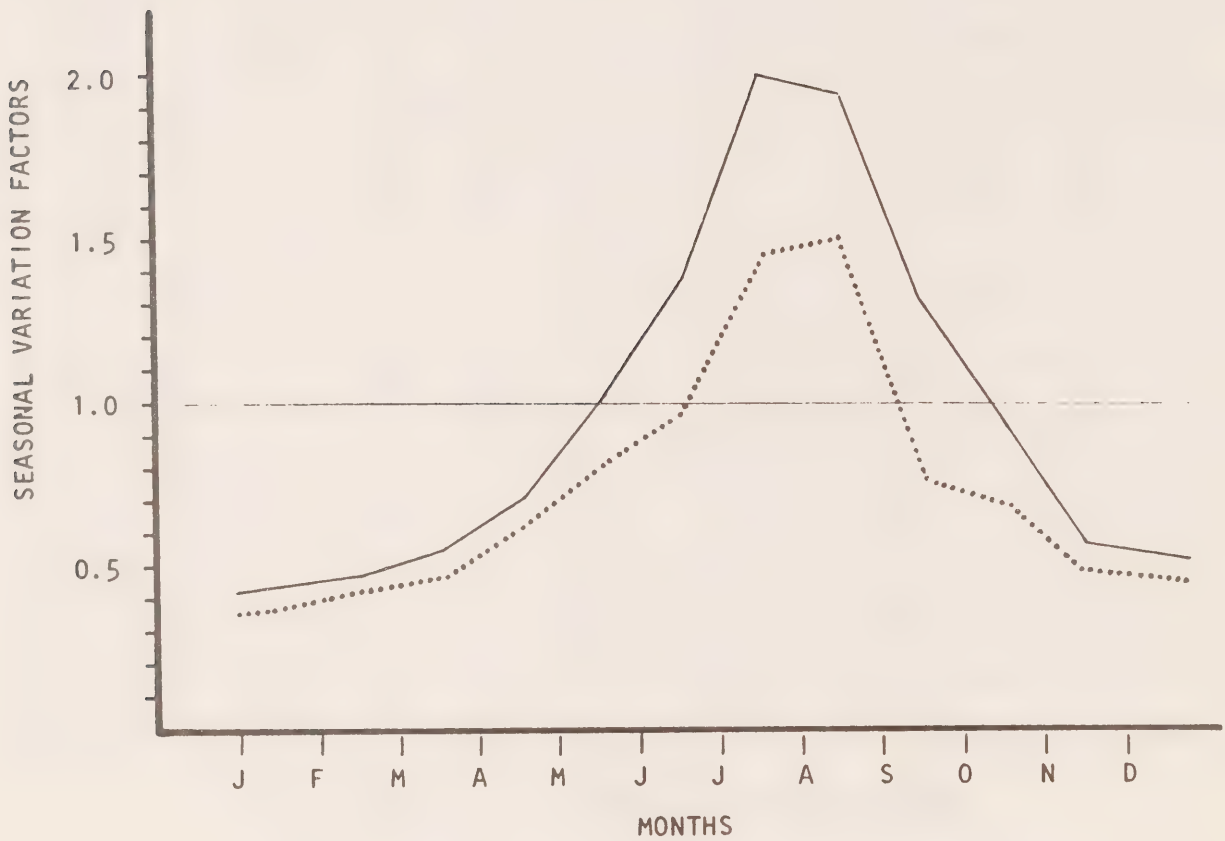
DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960	7,033					
1965	11,679		30,480	2,700	2,084	17.8
1970	15,453		43,116	3,570	2,671	17.3
1975	19,940		48,989	4,397	3,129	15.6
1980	22,617		54,087	4,997	3,460	15.2
1981	22,596	-0.1	52,087	4,773	3,417	15.1
1982	22,600	0.0	56,687	4,761	3,643	16.2
1983	23,779	+5.0	57,058	5,143	3,546	15.0
1984	25,244	+5.8	63,240	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Port Severn PCS NO. 36

YEAR: 1984 PATTERN TYPE: Recreation



$\frac{ADT}{AADT} = \text{—}$

$\frac{AWD}{AADT} = \text{.....}$

PERMANENT COUNTING STATION

P.C.S. NAME: Port Severn P.C.S. NO. 36 HIGHWAY: 69

LOCATION: 1.8 km N. of Muskoka Rd. 5

DATA FOR YEAR: 1984 PATTERN TYPE: Recreation

MONTH	ADT	ADT/ AADT FACTOR	AWD	AWD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	2,375	0.450	2,027	0.372	SUN	1	4,354
FEB	2,710	0.498	2,226	0.410	SUN	12	4,333
MAR	3,083	0.570	2,644	0.488	SUN	18	4,909
APR	3,579	0.729	3,421	0.627	FRI	20	7,058
MAY	5,650	1.017	4,339	0.801	FRI	25	9,762
JUN	7,191	1.399	5,356	0.980	FRI	29	14,078
JUL	10,848	2.003	8,130	1.488	SUN	29	18,887
AUG	10,386	1.960	8,230	1.516	SUN	5	16,603
SEP	5,872	1.304	4,297	0.792	MON	3	18,717
OCT	4,846	0.941	3,800	0.695	FRI	5	8,538
NOV	3,137	0.593	2,700	0.496	FRI	9	5,628
DEC	2,694	0.536	2,358	0.434	SUN	23	5,830

ANNUAL AVERAGE DAILY TRAFFIC 5,417

DESIGN HOUR VOLUME _____ % OF AADT _____

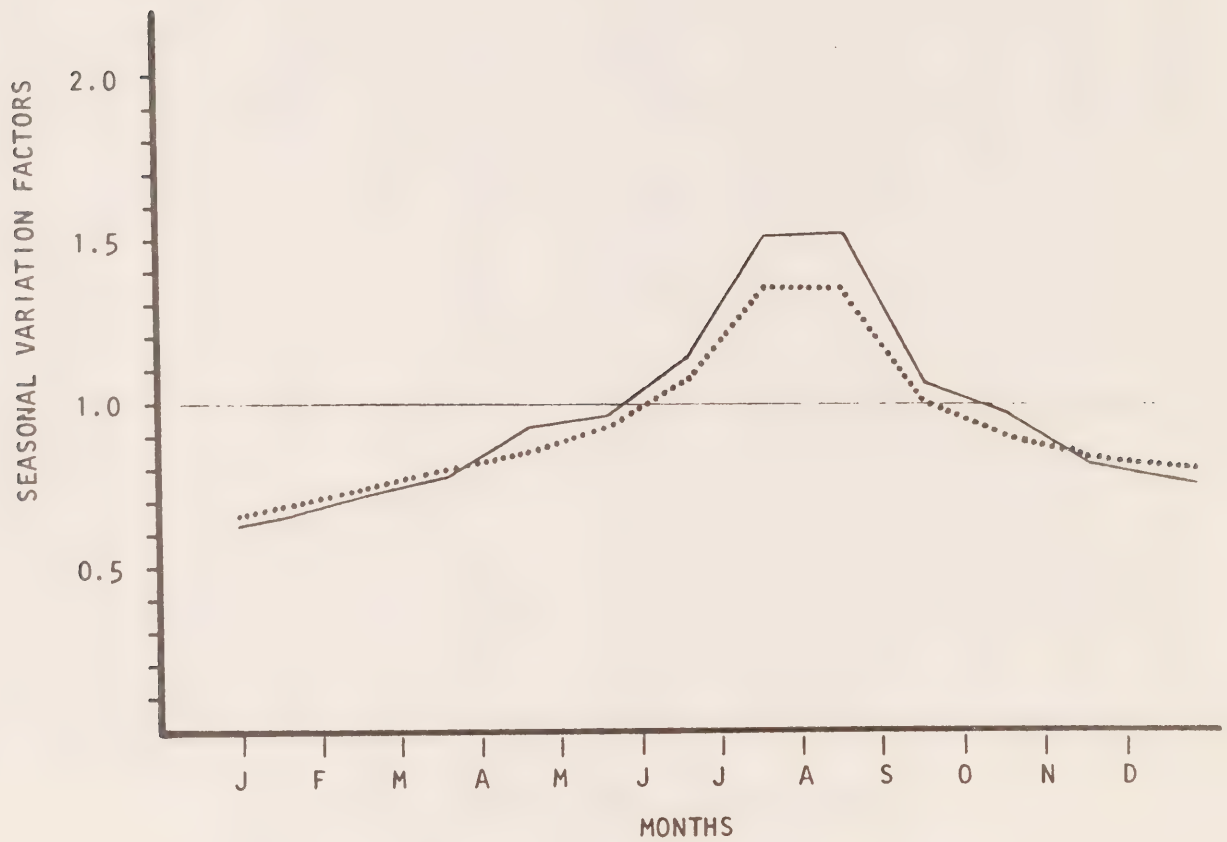
HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960	1,626					
1965	3,084		12,843	1,368	929	30.1
1970	4,209		16,978	1,445	1,066	25.3
1975	4,904		20,408	1,454	1,169	23.8
1980	5,648		22,863	1,787	1,355	23.9
1981	-		-	-	-	-
1982	-		-	-	-	-
1983	5,523*		-	-	-	-
1984	5,417*		-	-	-	-

* Estimate

SEASONAL VARIATION CURVES

PCS NAME: Rowena PCS NO. 27

YEAR: 1984 PATTERN TYPE: Intermediate Tourist



$\frac{ADT}{AADT} = \text{—}$

$\frac{AWD}{AADT} = \text{.....}$

PERMANENT COUNTING STATION

P.C.S. NAME: Rowena P.C.S. NO. 27 HIGHWAY: 401

LOCATION: 6.8 km W. of Hwy. 31

DATA FOR YEAR: 1984 PATTERN TYPE: Intermediate Tourist

MONTH	ADT	ADT/ AADT FACTOR	AWD	AWD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	5,865	0.672	6,379	0.700	MON	2	10,165
FEB	6,679	0.735	6,909	0.758	FRI	17	8,384
MAR	7,222	0.790	7,299	0.801	FRI	16	9,238
APR	7,755	0.939	8,016	0.876	THU	19	19,225
MAY	8,391	0.971	8,555	0.938	FRI	18	16,784
JUN	10,193	1.165	10,055	1.098	FRI	29	21,764
JUL	13,608	1.510	12,561	1.386	FRI	20	19,207
AUG	12,992	1.517	12,561	1.378	FRI	31	21,691
SEP	9,364	1.086	9,360	1.027	MON	3	19,939
OCT	8,173	0.992	8,364	0.917	MON	8	19,366
NOV	7,384	0.822	7,625	0.837	FRI	9	9,888
DEC	7,069	0.798	7,481	0.819	WED	26	12,604

ANNUAL AVERAGE DAILY TRAFFIC 9,110

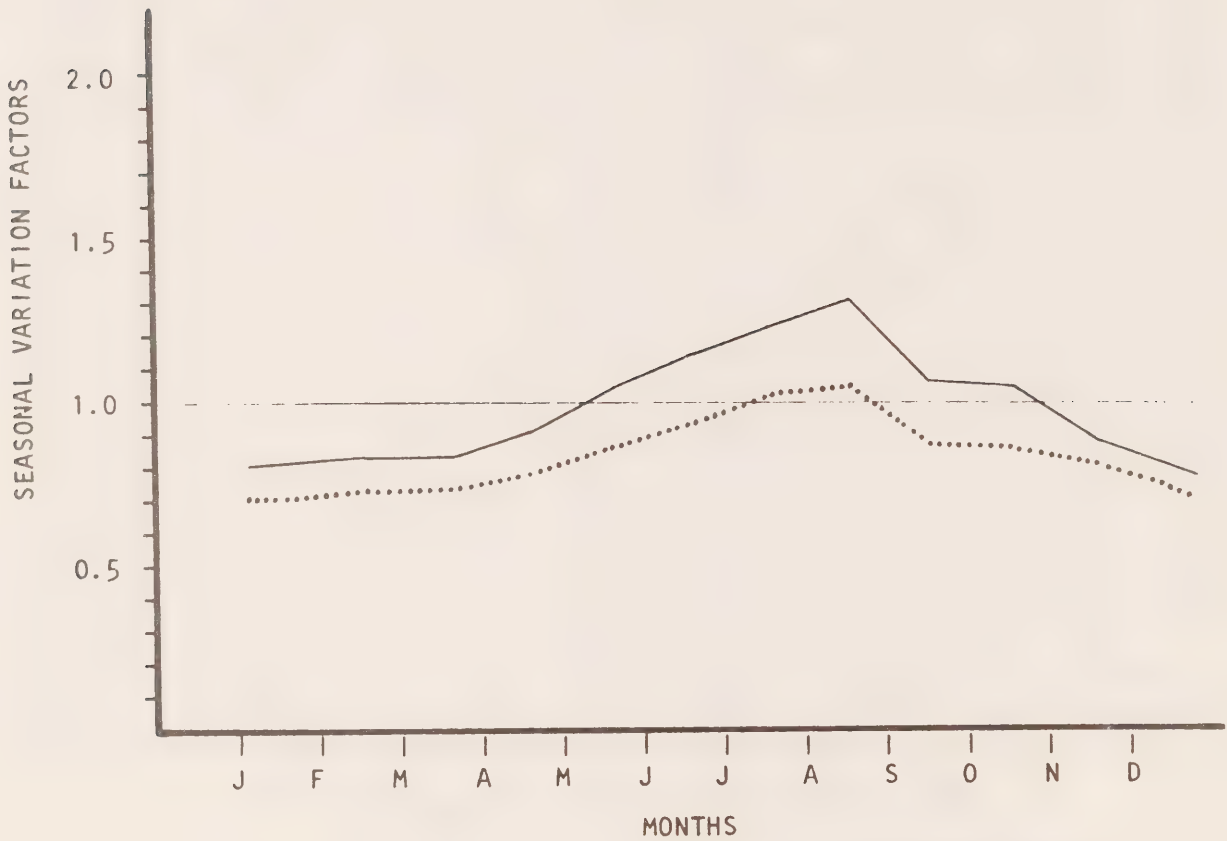
DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960	1,080					
1965	4,505		11,520	1,020	730	16.2
1970	6,563		18,701	1,695	1,138	17.3
1975	8,263		20,750	1,964	1,315	15.9
1980	8,572		20,937	2,075	1,342	15.6
1981	8,628	+0.6	21,341	1,898	1,360	15.7
1982	8,181	-5.1	20,329	1,828	1,368	16.7
1983	8,575	+4.6	20,789	2,091	1,370	16.0
1984	9,110	+5.9	21,764	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Shelburne PCS NO. 4

YEAR: 1984 PATTERN TYPE: Unclassified



$\frac{ADT}{AADT} = \text{———}$

$\frac{AWD}{AADT} = \text{.....}$

PERMANENT COUNTING STATION

P.C.S. NAME: Shelburne P.C.S. NO. 4 HIGHWAY: 10

LOCATION: 1.8 km W. of E. Jct. Hwy. 89 - Primrose

DATA FOR YEAR: 1984 PATTERN TYPE: Unclassified

MONTH	ADT	ADT/ AADT FACTOR	AMD	AMD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	6,456	0.814	5,752	0.712	SUN	1	8,841
FEB	6,791	0.838	5,966	0.739	FRI	10	9,250
MAR	6,693	0.833	5,962	0.738	FRI	30	8,521
APR	7,369	0.929	6,393	0.791	THU	19	10,632
MAY	8,248	1.056	7,125	0.882	FRI	18	14,120
JUN	8,968	1.147	7,568	0.937	FRI	29	15,402
JUL	9,740	1.226	8,218	1.017	MON	2	14,841
AUG	10,365	1.304	8,442	1.045	FRI	3	15,095
SEP	8,412	1.077	7,171	0.888	MON	3	12,939
OCT	8,372	1.063	7,102	0.879	FRI	5	13,214
NOV	7,290	0.896	6,523	0.806	FRI	2	9,425
DEC	6,439	0.815	6,040	0.747	WED	26	8,924

ANNUAL AVERAGE DAILY TRAFFIC 8,075

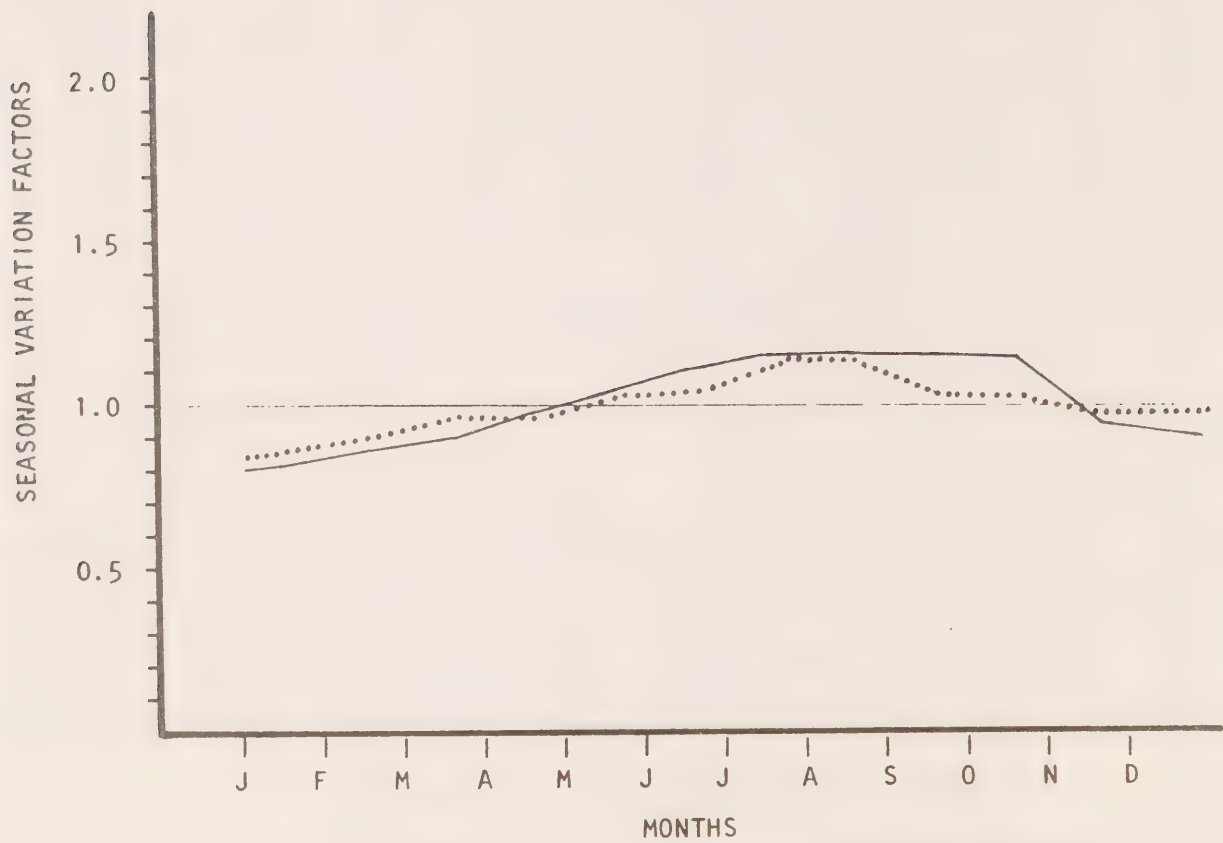
DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960						
1965						
1970						
1975						
1980	7,748		15,629	1,426	1,135	14.6
1981	7,838	+1.1	16,788	1,489	1,105	14.0
1982	7,650	-2.3	15,122	1,370	1,122	14.6
1983	7,851	+2.6	15,162	1,438	1,146	14.6
1984	8,075	+2.3	15,402	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Simcoe PCS NO. 30

YEAR: 1984 PATTERN TYPE: Intermediate Commuter



$\frac{ADT}{AADT} = \text{———}$

$\frac{AWD}{AADT} = \text{.....}$

PERMANENT COUNTING STATION

P.C.S. NAME: Simcoe P.C.S. NO. 30 HIGHWAY: 3

LOCATION: 7.9 km W. of Haldimand/Norfolk Rd. 41

DATA FOR YEAR: 1984 PATTERN TYPE: Intermediate Commuter

MONTH	ADT	ADT/ AADT FACTOR	AMD	AMD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	4,290	0.821	4,480	0.865	FRI	27	4,871
FEB	4,553	0.880	4,699	0.907	FRI	24	5,127
MAR	4,669	0.902	4,785	0.982	FRI	9	5,231
APR	5,203	0.991	5,057	0.976	SUN	29	6,154
MAY	5,384	1.045	5,310	1.025	FRI	18	6,625
JUN	5,668	1.104	5,511	1.064	FRI	29	6,849
JUL	6,034	1.163	5,891	1.137	SUN	22	6,849
AUG	5,975	1.173	5,869	1.133	FRI	3	7,323
SEP	5,401	1.043	5,363	1.035	FRI	21	6,286
OCT	5,202	1.031	5,328	1.028	FRI	5	7,010
NOV	4,910	0.946	4,983	0.962	SUN	25	5,280
DEC	5,034	0.901	5,105	0.983	THU	20	5,651

ANNUAL AVERAGE DAILY TRAFFIC 5,180

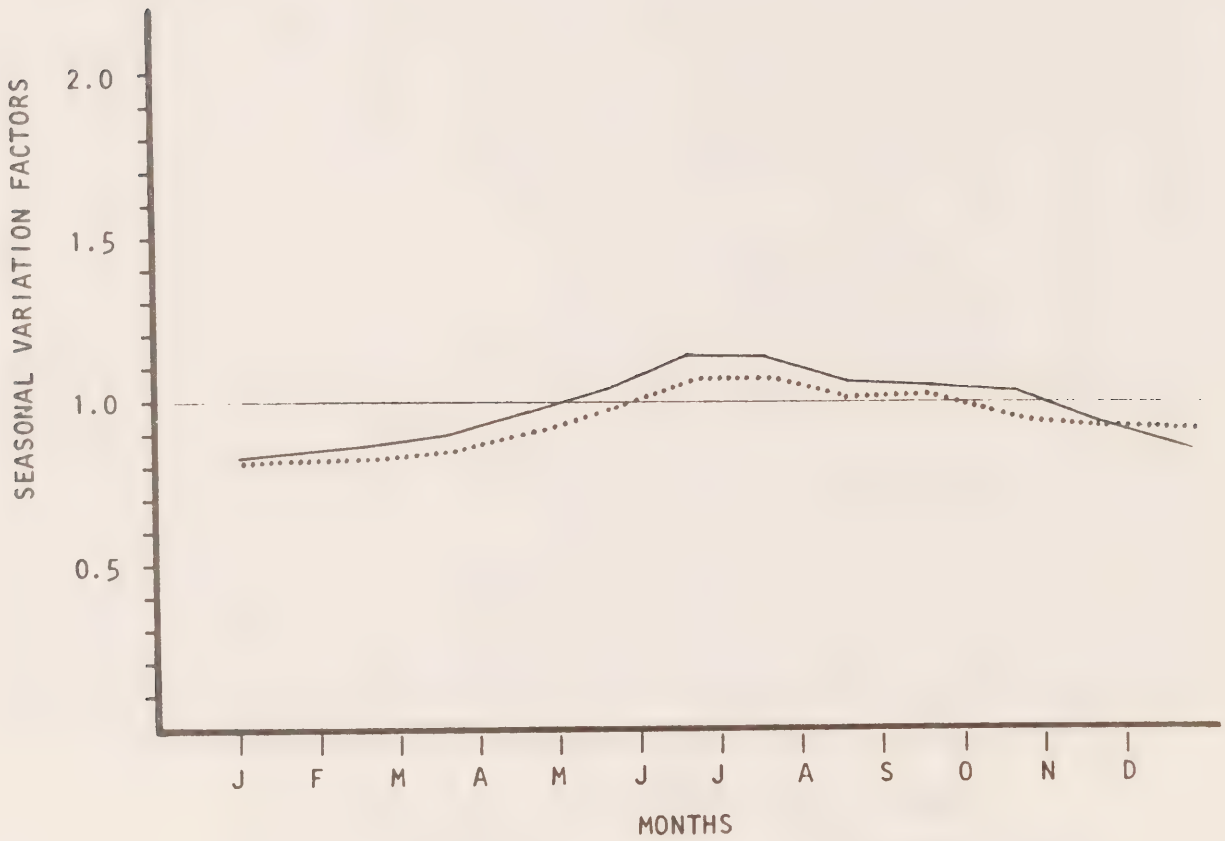
DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960	3,948					
1965	4,217		7,628	683	536	12.7
1970	4,407		7,515	599	522	11.8
1975	5,057		8,662	787	630	12.4
1980	5,142		7,549	620	537	10.4
1981	5,117	-0.4	7,533	734	541	10.5
1982	5,076	-0.8	7,709	887	563	11.0
1983	5,166	+1.7	7,225	596	537	10.4
1984	5,180	+0.3	7,323	-	-	-

SEASONAL VARIATION CURVES

PCS NAME: Snelgrove PCS NO. 90

YEAR: 1984 PATTERN TYPE: Commuter



$\frac{ADT}{AADT} = \text{———}$

$\frac{AWD}{AADT} = \text{.....}$

PERMANENT COUNTING STATION

P.C.S. NAME: Snelgrove P.C.S. NO. 90 HIGHWAY: 10

LOCATION: 10.3 km N. of N. Jct. Hwy. 7

DATA FOR YEAR: 1984 PATTERN TYPE: Commuter

MONTH	ADT	ADT/ AADT FACTOR	AWD	AWD/ AADT FACTOR	MAXIMUM DAILY VOLUME		
					DAY	DATE	VOLUME
JAN	9,362	0.861	9,103	0.831	SUN	15	11,355
FEB	9,700	0.884	9,248	0.844	SUN	5	12,157
MAR	9,899	0.902	9,469	0.864	SUN	4	13,037
APR	10,831	0.985	10,217	0.932	SUN	1	14,875
MAY	11,405	1.043	10,893	0.994	MON	21	15,393
JUN	12,705	1.159	11,927	1.088	SUN	24	16,521
JUL	12,641	1.151	11,925	1.088	SUN	22	16,722
AUG	11,581	1.078	11,057	1.009	SUN	26	15,407
SEP	11,642	1.071	11,164	1.019	SUN	9	14,962
OCT	10,921	1.029	10,539	0.962	MON	8	16,394
NOV	10,359	0.941	10,278	0.938	SUN	25	12,029
DEC	10,383	0.898	10,084	0.920	SUN	9	12,274

ANNUAL AVERAGE DAILY TRAFFIC 10,957

DESIGN HOUR VOLUME _____ % OF AADT _____

HISTORICAL DATA						
YEAR	AADT	% CHANGE OVER PREV. YEAR	MAXIMUM DAY	MAXIMUM HOUR	30TH HIGHEST HOUR (DHV)	DHV % OF AADT
1960						
1965						
1970						
1975	12,298		22,887	2,387	1,357	11.0
1980	11,388		17,876	1,842	1,289	11.0
1981	11,360		18,752	1,361	1,231	10.0
1982	10,847	-1.1	16,952	1,461	1,230	11.0
1983	11,016	+1.5	18,354	1,859	1,175	10.7
1984	10,957	-0.5	16,722	-	-	-

Auxiliary Counting Stations

Ferry Crossings
Border Crossings
Service Centres

INTRODUCTION

Auxiliary Counting Stations

Auxiliary Counting Stations include Ferry Crossings, Border Crossings, and Service Centres. The information gathered at Ferry Crossings and Service Centres is used to monitor the demand for vehicle-associated services and the information gathered at Border Crossings is used to monitor the type and number of vehicles entering the Province of Ontario.

Ferry Crossings

The M.T.C. operates two ferries: the Glenora Ferry and the Wolfe Island Ferry. The traffic carried by both ferries is monitored by District 8, Kingston and monthly reports are prepared.

The Glenora Ferry is a link on Highway 33 between Picton and Kingston. Minor variations in the composition of traffic have been noted from year to year, but the actual service to the public has remained stable.

The Wolfe Island Ferry provides a connection between Highway 2 in downtown Kingston and Highways 95 and 96 on Wolfe Island. Highway 95 crosses the island to the border crossing at Alexandria Point. There was a modest decrease in vehicle traffic of 1.4% but there was a noteworthy increase of 4.5% in pedestrian traffic from 1983 to 1984. In speculation, some of the reasons for the increased pedestrian usage may be the revitalization of Kingston's downtown, additional employment and commercial opportunities and an increased awareness of alternatives prompted by circulation of car pool information by the Eastern Region to island residents.

Border Crossings

At nineteen international border crossings between Ontario and the United States, Statistics Canada compiles data on the number and type of vehicles entering the Province. It should be noted that the data presented is for "inbound traffic only". To estimate the total two way traffic, assume a 50/50 directional split and double the values.

Eventhough the majority of border crossings show a decrease in 1984, there was, in fact, a modest gain of 344 in total vehicles per day entering the Province. The areas which experienced the increases were Niagara Falls, Windsor, Sarnia and Sault Ste. Marie.

Service Centres

There are twenty-three service centres located along Highways 400 and 401. Traffic on the highway section and service centre entrance is counted during the spring, summer and fall to collect seasonal volumes. The AADT is estimated by comparing these volumes to the permanent counting stations' volume variations using the "least squares" method. Since the service centres are located on divided highways, it is assumed that one half of the highway traffic has access.

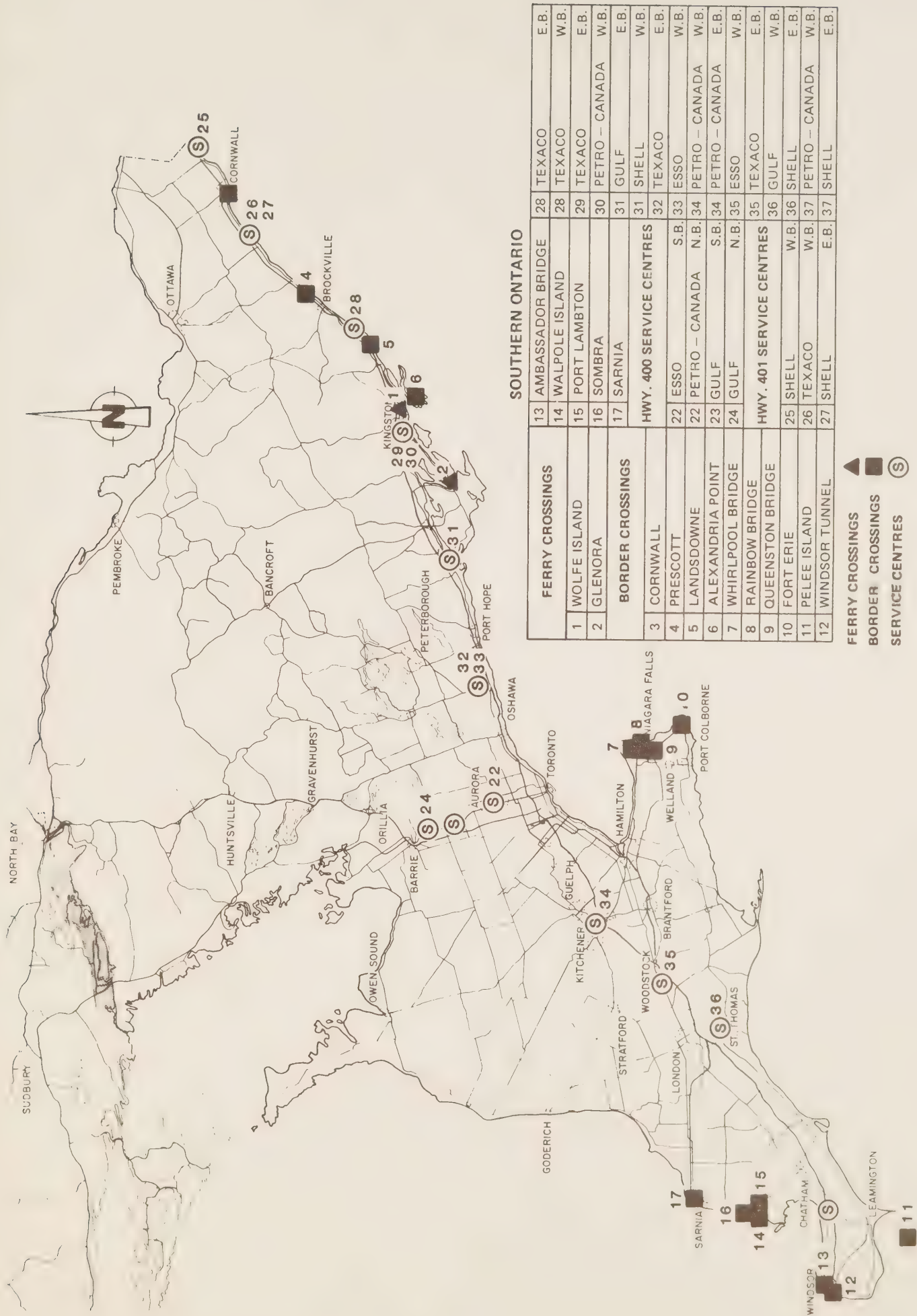
The traffic volume data is gathered annually to enable the Service Centre Section and the major oil companies to assess and forecast the demand for services and accordingly satisfy motorists' needs. This information is needed, now more than ever, for analysis of major initiatives such as the conversion of restaurant to fast food facilities and possible improvement to picnic areas.



NORTHERN ONTARIO

BORDER CROSSINGS	
18	SAULT STE. MARIE
19	PIGEON RIVER BRIDGE
20	FORT FRANCES
21	RAINY RIVER BRIDGE

BORDER CROSSINGS



Ferry Crossings

FERRY CROSSING

MTC FERRY: Glenora & The Quinte Loyaliste
LOCATION: Hwy. 33 Between Glenora & Picton
MEASURES: Two Way
DATA FOR YEAR: 1984

MONTH	SAIL 'S	* TOTAL CARS	** TOTAL TRUCKS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	PEDESTRIANS
JAN	1,232	9,188	242	9,430	304	
FEB	1,148	10,335	313	10,648	367	
MAR	1,217	10,928	285	11,213	362	
APR	1,273	14,896	334	15,230	503	
MAY	1,722	20,429	655	21,084	680	
JUN	2,263	29,962	797	30,759	1,025	
JUL	2,581	47,072	960	48,032	1,549	
AUG	2,402	39,803	917	40,720	1,314	
SEP	2,219	25,891	849	26,740	891	
OCT	1,790	22,513	583	23,096	745	
NOV	1,270	13,189	712	13,901	463	
DEC	1,281	11,727	239	11,966	386	
ANNUAL	20,398	255,933	6,886	262,819	718	

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) + 0.4

- * Includes - Cars, Motorcycles, Trailers
 ** Includes - Trucks, Buses

Sources M.T.C. Operated Ferry

FERRY CROSSING

MTC FERRY: Wolfe Islander III & Charlevoix

LOCATION: Hwy. 24 & 95 Between Kingston & Wolfe Island

MEASURES: Two Way

DATA FOR YEAR: 1984

MONTH	SAIL 'S	* TOTAL CARS	** TOTAL TRUCKS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	PEDESTRIANS
JAN	519	18,533	1,379	19,912	642	7,939
FEB	486	18,169	1,329	19,498	627	7,480
MAR	518	20,597	1,329	21,926	707	8,794
APR	511	24,006	1,514	25,520	851	12,372
MAY	513	23,750	1,654	25,404	819	16,563
JUN	514	29,631	1,562	31,193	1,040	21,428
JUL	531	34,453	1,548	36,001	1,161	36,609
AUG	525	34,023	1,633	35,656	1,150	35,391
SEP	512	28,100	1,510	29,610	987	19,683
OCT	527	28,883	1,654	30,537	985	14,585
NOV	511	25,095	1,568	26,663	889	11,748
DEC	530	22,843	1,355	24,198	781	9,866
ANNUAL	6,197	308,083	18,035	326,118	891	202,458

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) -1.4

* Includes - Cars, Motorcycles, Trailers

** Includes - Trucks, Buses

Sources M.T.C. Operated Ferry

Border Crossings

BORDER CROSSING

CROSSING: Alexandria Point Ferry

LOCATION: Alexandria Point to Cape Vincent, New York

MEASURES: Inbound Traffic Only

DATA FOR YEAR: 1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN						
FEB						
MAR						
APR						
MAY	804	3	129	* 936	30	62.2
JUN	1,577	4	276	1,857	62	69.0
JUL	4,147	3	526	4,676	151	77.9
AUG	3,689	0	379	4,068	131	75.5
SEP	1,643	2	197	1,842	61	68.5
OCT	604	0	33	* 637	21	64.2
NOV						
DEC						
ANNUAL	12,464	12	1,540	14,016	** 38	73.1

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) - 5%

Source: Statistics Canada

Part Month *

Part Year **

BORDER CROSSING

CROSSING:	Cornwall Seaway Bridge
LOCATION:	Cornwall to Massena, New York
MEASURES:	inbound traffic only
DATA FOR YEAR:	1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	27,020	2,588	0	29,608	955	52.1
FEB	24,669	2,184	3	26,856	926	50.9
MAR	30,789	2,429	10	33,228	1,072	49.4
APR	35,831	2,357	196	38,384	1,279	50.8
MAY	36,410	2,683	372	39,465	1,273	51.0
JUN	38,313	2,440	540	41,293	1,376	50.8
JUL	45,423	2,392	607	48,422	1,562	47.9
AUG	49,720	2,109	519	52,348	1,689	49.4
SEP	40,903	1,893	280	43,076	1,436	47.9
OCT	38,629	2,213	124	40,966	1,321	49.8
NOV	32,653	1,904	16	34,573	1,152	52.9
DEC	32,845	1,379	2	34,226	1,104	51.4
ANNUAL	433,205	26,571	2,669	462,445	1,263	50.2

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) - 3.7

Source: Statistics Canada

B O R D E R C R O S S I N G

CROSSING: Peace Bridge

LOCATION: Fort Erie to Buffalo, New York

MEASURES: Inbound Traffic Only

DATA FOR YEAR: 1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	143,221	23,409	0	166,630	5,375	50.4
FEB	142,010	23,649	75	165,734	5,715	55.3
MAR	160,479	28,581	29	189,089	6,100	52.5
APR	201,243	25,940	364	227,547	7,585	57.0
MAY	236,189	29,006	630	265,825	8,575	64.0
JUN	290,926	28,961	1,597	321,484	10,716	72.8
JUL	424,847	25,766	2,810	453,423	14,627	78.1
AUG	414,329	29,047	1,489	444,865	14,350	72.7
SEP	260,711	26,294	783	287,788	9,593	64.2
OCT	216,127	30,775	312	247,214	7,975	59.0
NOV	176,471	30,501	80	207,052	6,902	56.2
DEC	160,032	23,945	5	183,982	5,935	54.7
ANNUAL	2,826,585	325,874	8,174	3,160,633	8,636	64.3

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) -3.7

Source: Statistics Canada

B O R D E R C R O S S I N G

CROSSING:	International Bridge
LOCATION:	Fort Frances to International Falls, Minnesota
MEASURES:	Inbound Traffic Only
DATA FOR YEAR:	1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	24,509	982	0	25,491	822	33.8
FEB	24,498	875	31	25,404	876	32.9
MAR	28,992	720	120	29,832	962	33.1
APR	28,099	833	401	29,333	978	31.1
MAY	36,896	698	619	38,213	1,233	51.1
JUN	48,016	1,081	826	49,923	1,664	62.8
JUL	44,553	1,409	1,264	47,226	1,523	55.1
AUG	43,499	1,146	1,014	45,659	1,473	53.3
SEP	33,585	896	509	34,990	1,166	48.9
OCT	27,067	954	309	28,330	914	33.8
NOV	24,444	1,274	54	25,772	859	30.0
DEC	25,362	777	3	26,142	843	30.2
ANNUAL	389,520	11,645	5,150	406,315	1,110	44.2

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) -6.5

Source: Statistics Canada

BORDER CROSSING

CROSSING: Thousand Island Bridge

LOCATION: Landsdowne to Collins Bay, New York

MEASURES: Inbound Traffic Only

DATA FOR YEAR: 1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	12,206	6,867	0	19,073	615	30.3
FEB	13,796	6,705	10	20,511	707	36.6
MAR	21,472	7,849	16	29,337	946	26.4
APR	31,391	6,948	196	38,535	1,285	28.3
MAY	41,342	8,009	736	50,087	1,616	45.7
JUN	48,782	8,099	821	57,702	1,923	59.6
JUL	79,429	7,033	1,327	87,789	2,832	59.4
AUG	82,245	6,801	1,124	90,170	2,909	59.8
SEP	47,218	6,674	957	54,849	1,828	50.2
OCT	32,084	6,839	102	39,025	1,259	38.5
NOV	18,548	6,632	11	25,191	840	35.6
DEC	15,439	5,805	1	21,245	685	35.9
ANNUAL	443,952	84,261	5,301	533,514	1,458	47.7

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) -4.0

Source: Statistics Canada

B O R D E R C R O S S I N G

CROSSING:	Lewiston-Queenston Bridge
LOCATION:	Niagara Falls to Niagara Frontier, Lewiston, New York
MEASURES:	Inbound Traffic Only
DATA FOR YEAR:	1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	48,591	19,751	32	68,374	2,206	47.2
FEB	51,921	18,862	197	70,980	2,448	48.0
MAR	58,935	21,544	24	80,503	2,597	46.7
APR	77,402	20,573	71	98,046	3,268	48.7
MAY	91,109	22,246	417	113,772	3,670	54.4
JUN	103,954	23,405	431	127,790	4,260	60.4
JUL	144,840	22,270	807	167,917	5,417	63.2
AUG	153,945	22,050	804	176,799	5,703	64.3
SEP	100,010	21,326	578	121,914	4,064	61.1
OCT	80,729	25,317	194	106,240	3,427	53.1
NOV	65,802	24,388	13	90,203	3,007	49.4
DEC	60,828	21,257	17	82,102	2,649	49.0
ANNUAL	1,038,066	262,989	3,585	1,304,640	3,565	55.7

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) +1.0

Source: Statistics Canada

B O R D E R C R O S S I N G

CROSSING: Rainbow Bridge

LOCATION: Niagara Falls, Ontario to Niagara Falls, New York

MEASURES: Inbound Traffic Only

DATA FOR YEAR: 1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	74,794	909	8	75,711	2,442	45.5
FEB	77,348	982	34	78,364	2,702	40.7
MAR	82,643	961	13	83,617	2,697	44.1
APR	110,301	1,092	512	111,905	3,730	47.4
MAY	125,991	1,116	696	127,803	4,123	61.7
JUN	140,116	1,740	1,666	143,522	4,784	63.8
JUL	199,958	1,849	2,417	204,224	6,588	70.5
AUG	205,113	1,762	2,336	209,211	6,749	70.7
SEP	132,364	1,386	1,324	135,074	4,502	64.1
OCT	120,028	1,367	527	121,922	3,933	57.0
NOV	92,177	1,435	111	93,723	3,124	48.9
DEC	95,893	1,439	52	97,384	3,141	46.9
ANNUAL	1,456,726	16,038	9,696	1,482,460	4,050	58.4

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) -4.4

Source: Statistics Canada

BORDER CROSSING

CROSSING:	Whirlpool Bridge
LOCATION:	Niagara Falls to Niagara Frontier
MEASURES:	Inbound Traffic Only
DATA FOR YEAR:	1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	36,434	2,596	8	39,039	1,259	40.9
FEB	36,450	2,371	24	38,845	1,340	42.5
MAR	39,544	1,954	41	41,539	1,340	39.8
APR	47,583	2,529	196	50,308	1,677	42.6
MAY	52,530	2,638	182	55,350	1,786	42.3
JUN	55,516	2,813	586	58,915	1,964	47.7
JUL	69,740	2,975	668	73,383	2,367	58.2
AUG	67,910	3,496	625	72,031	2,324	54.2
SEP	54,109	2,712	511	57,332	1,911	47.7
OCT	52,934	2,995	128	56,057	1,808	39.8
NOV	46,301	2,497	84	48,882	1,629	45.9
DEC	47,627	2,390	25	50,042	1,614	39.7
ANNUAL	606,678	31,966	3,078	641,722	1,753	46.1

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) +3.0

Source: Statistics Canada

B O R D E R C R O S S I N G

CROSSING: Pelee Island Ferry

LOCATION: Pelee Island to Sandusky, Ohio

MEASURES: Inbound Traffic Only

DATA FOR YEAR: 1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	-	-	441	441	14	29.3
FEB	-	-	214	214	7	35.0
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	66	0	13	79	3	86.1
JUN	235	0	59	294	10	93.9
JUL	417	0	202	619	20	90.6
AUG	460	0	191	651	21	91.1
SEP	104	0	43	147	5	93.2
OCT	-	-	-	-	-	-
NOV	15	1	0	16	1	31.3
DEC	-	-	-	-	-	-
ANNUAL	1,297	1	1,163	2,461	7	74.9

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) -0.1

Source: Statistics Canada

BORDER CROSSING

CROSSING: Pigeon River International Bridge

LOCATION: Pigeon River to Grand Portage, Minnesota

MEASURES: Inbound Traffic Only

DATA FOR YEAR: 1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	2,421	1,855	0	4,276	138	48.6
FEB	3,501	1,937	0	5,438	188	47.4
MAR	5,095	1,838	8	6,941	224	40.5
APR	4,996	1,528	164	6,688	223	33.6
MAY	7,822	1,709	215	9,746	314	61.8
JUN	11,380	1,787	366	13,533	451	77.6
JUL	13,756	1,591	870	16,217	523	71.8
AUG	15,542	1,679	773	17,994	581	73.1
SEP	11,325	1,739	232	13,296	443	68.4
OCT	6,140	2,160	67	8,367	270	53.4
NOV	3,339	2,118	8	5,465	182	46.9
DEC	2,426	2,060	0	4,486	145	58.8
ANNUAL	87,743	22,001	2,703	112,447	307	62.1

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) -1.6

Source: Statistics Canada

B O R D E R C R O S S I N G

CROSSING: Port Lambton Ferry

LOCATION: Port Lambton to Roberts Landing, Michigan

MEASURES: Inbound Traffic Only

DATA FOR YEAR: 1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	-	-	-
APR	-	-	-	-	-	-
MAY	1,757	8	22	1,787	58	40.7
JUN	2,767	15	73	2,855	95	46.8
JUL	3,279	11	84	3,374	109	58.3
AUG	2,906	24	106	3,036	98	54.1
SEP	2,528	12	69	2,609	87	50.3
OCT	1,981	8	264	2,253	73	47.7
NOV	593	4	0	597	20	44.9
DEC	-	-	-	-	-	-
ANNUAL	15,811	82	618	16,511	45	50.4

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) -0.1

Source: Statistics Canada

BORDER CROSSING

CROSSING: Prescott Seaway Skyway

LOCATION: Prescott to Ogensburg, New York

MEASURES: Inbound Traffic Only

DATA FOR YEAR: 1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	10,358	1,097	1	11,456	370	37.5
FER	10,708	839	4	11,551	398	38.1
MAR	11,726	1,183	5	12,914	417	35.2
APR	14,165	1,009	107	15,281	509	33.8
MAY	15,353	1,087	203	16,643	537	40.2
JUN	14,802	1,160	241	16,203	540	41.5
JUL	20,398	772	353	21,523	694	42.5
AUG	20,630	916	322	21,868	706	44.6
SEP	16,995	1,023	165	18,183	606	38.3
OCT	15,652	970	79	16,701	539	37.8
NOV	13,140	987	5	14,132	471	39.8
DEC	12,057	849	0	12,906	416	41.3
ANNUAL	175,984	11,892	1,485	189,361	517	39.6

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) 0

Source: Statistics Canada

BORDER CROSSING

CROSSING: Rainy River Bridge

LOCATION: Rainy River to Baudette, Minnesota

MEASURES: Inbound Traffic Only

DATA FOR YEAR: 1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	3,979	281	0	4,260	138	20.1
FEB	4,147	315	9	4,471	154	19.1
MAR	4,716	386	34	5,136	166	20.3
APR	4,851	430	129	5,410	180	19.4
MAY	6,655	414	123	7,192	232	37.9
JUN	8,884	346	250	9,480	316	44.9
JUL	8,990	345	358	9,693	313	38.3
AUG	7,636	465	211	8,312	268	35.9
SEP	6,201	389	103	6,693	223	31.9
OCT	5,049	414	67	5,530	178	23.3
NOV	4,288	375	5	4,668	156	17.0
DEC	4,417	231	0	4,648	150	17.5
ANNUAL	69,813	4,391	1,289	75,493	206	29.8

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) -3.3

Source: Statistics Canada

B O R D E R C R O S S I N G

CROSSING:	Bluewater Bridge
LOCATION:	Sarnia to Port Huron, Michigan
MEASURES:	Inbound Traffic Only
DATA FOR YEAR:	1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	85,518	12,621	8	98,147	3,166	49.4
FEB	88,955	11,470	19	100,444	3,464	49.4
MAR	100,969	14,262	24	115,255	3,718	50.9
APR	110,480	13,998	404	124,882	4,163	51.5
MAY	118,668	15,071	575	134,314	4,333	56.0
JUN	134,997	14,999	1,523	151,519	5,051	59.8
JUL	163,492	16,448	1,961	181,901	5,868	62.7
AUG	178,040	14,255	1,263	193,558	6,244	63.4
SEP	126,950	13,798	353	141,101	4,703	55.5
OCT	114,219	15,667	298	130,184	4,200	56.0
NOV	100,655	15,138	48	115,841	3,861	54.0
DEC	100,540	13,115	14	113,669	3,667	51.8
ANNUAL	1,423,483	170,842	6,490	1,600,815	4,374	56.0

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) +4.9

Source: Statistics Canada

B O R D E R C R O S S I N G

CROSSING: Sault Ste. Marie International Bridge

LOCATION: Sault Ste. Marie, Ontario to Sault Ste. Marie, Michigan

MEASURES: Inbound Traffic Only

DATA FOR YEAR: 1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	41,649	3,237	197	45,083	1,454	28.1
FEB	48,551	3,004	234	51,789	1,786	28.2
MAR	53,648	3,137	53	56,838	1,835	27.4
APR	51,880	2,755	238	54,873	1,829	26.2
MAY	59,277	2,945	423	62,645	2,021	33.9
JUN	66,389	3,081	780	70,250	2,342	45.1
JUL	91,618	2,867	1,966	96,451	3,111	50.4
AUG	86,215	2,900	1,603	90,718	2,926	52.6
SEP	70,039	2,967	760	73,766	2,459	46.2
OCT	60,820	3,184	195	64,199	2,071	37.4
NOV	46,881	2,835	11	49,727	1,658	30.7
DEC	44,887	2,175	2	47,064	1,518	31.7
ANNUAL	721,854	35,087	6,462	763,403	2,085	38.6

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) +6.0

Source: Statistics Canada

B O R D E R C R O S S I N G

CROSSING:	Blue Water Ferry
LOCATION:	Sombra to Marine City, Michigan
MEASURES:	Inbound Traffic Only
DATA FOR YEAR:	1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	1,176	59	1	1,236	40	37.2
FER	2,330	124	0	2,454	85	38.3
MAR	2,842	192	4	3,038	98	35.3
APR	792	41	2	835	28	38.4
MAY	3,276	190	51	3,517	114	49.1
JUN	3,601	277	135	4,013	134	54.6
JUL	4,272	148	134	4,554	147	62.3
AUG	4,409	214	121	4,744	153	58.4
SEP	3,659	215	63	3,937	131	55.8
OCT	2,767	235	88	3,090	100	50.3
NOV	2,476	172	19	2,667	89	42.7
DEC	2,512	146	3	2,661	86	41.0
ANNUAL	34,112	2,013	621	36,746	100	49.8

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) +1.0

Source: Statistics Canada

B O R D E R C R O S S I N G

CROSSING: Walpole Island Ferry

LOCATION: Walpole Island To Algonac, Michigan

MEASURES: Inbound Traffic Only

DATA FOR YEAR: 1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	-	-	-	-	-	-
FEB	820	0	4	824	29	33.0
MAR	883	1	1	885	29	31.6
APR	-	-	-	-	-	-
MAY	2,723	6	51	2,780	90	38.4
JUN	3,136	10	90	3,236	108	50.5
JUL	3,739	2	120	3,861	125	59.2
AUG	3,485	0	67	3,552	115	57.7
SEP	2,881	0	17	2,898	97	48.7
OCT	2,953	0	239	3,192	103	53.9
NOV	2,926	0	2	2,928	98	50.1
DEC	2,499	0	6	2,505	81	42.3
ANNUAL	26,045	19	597	26,661	73	49.7

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) -6.4

Source: Statistics Canada

B O R D E R C R O S S I N G

CROSSING: Ambassador Bridge

LOCATION: Windsor to Detroit

MEASURES: Inbound Traffic Only

DATA FOR YEAR: 1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	132,959	57,268	222	190,449	6,144	51.2
FEB	147,558	58,582	26	206,166	7,109	56.2
MAR	178,900	66,336	86	245,322	7,914	53.3
APR	185,224	61,524	1,232	247,980	8,266	50.1
MAY	192,736	70,983	489	264,208	8,523	53.4
JUN	228,512	66,868	1,213	296,593	9,887	61.0
JUL	240,579	53,089	1,337	295,005	9,516	64.1
AUG	240,172	60,619	1,577	302,368	9,754	62.6
SEP	185,303	59,015	732	245,050	8,168	57.8
OCT	176,281	68,772	272	245,325	7,914	55.3
NOV	169,491	62,713	317	232,521	7,751	54.0
DEC	167,635	50,844	60	218,539	7,050	56.2
ANNUAL	2,245,350	736,613	7,563	2,989,526	8,168	56.7

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) +5.2

Source: Statistics Canada

B O R D E R C R O S S I N G

CROSSING: Windsor Tunnel

LOCATION: Windsor to Detroit

MEASURES: Inbound Traffic Only

DATA FOR YEAR: 1984

MONTH	TOTAL CARS	TOTAL TRUCKS	TOTAL OTHERS	TOTAL VEHICLES	AVERAGE DAILY TRAFFIC	FOREIGN COMPONENT (%)
JAN	197,836	6,397	9	204,242	6,589	50.4
FER	197,149	6,166	34	203,349	7,012	54.1
MAR	222,513	6,530	30	229,073	7,390	52.8
APR	223,127	6,417	415	229,959	7,665	54.3
MAY	234,588	6,568	162	241,318	7,785	56.9
JUN	230,244	6,715	356	237,315	7,911	60.5
JUL	267,400	6,354	830	274,584	8,858	61.1
AUG	282,913	6,163	1,003	290,079	9,357	61.3
SEP	239,972	5,638	587	246,197	8,207	56.2
OCT	225,008	6,702	838	232,548	7,502	56.3
NOV	226,113	5,665	68	231,846	7,728	60.3
DEC	226,869	4,714	129	231,712	7,475	57.9
ANNUAL	2,773,732	74,029	4,461	2,852,222	7,793	57.1

PERCENT CHANGE OVER PREVIOUS YEAR (AADT) +3.1

Source: Statistics Canada

Service Centres

S E R V I C E C E N T R E S

HIGHWAY: 400 **DIRECTION:** South Bound **SITE #** 400-1

LOCATION: Between Major MacKenzie Drive IC, York Road 25 & York Road 11

BETWEEN INTERCHANGES 35 **AND** 43 **COMPANY:** ESSO

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	17975	1500	8.2
1980	21050	1650	7.8
1981	22000	1500	6.8
1982	21500	1575	7.3
1983	22000	1650	7.5
1984	23200	1050	4.5

HIGHWAY: 400 **DIRECTION:** North Bound **SITE #** 400-2

LOCATION: Between Major MacKenzie Drive, IC, York Road 25 & York Road 11

BETWEEN INTERCHANGES 35 **AND** 43 **COMPANY:** PETRO-CANADA

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	14000	1000	7.1
1980	21050	1650	7.8
1981	22000	1750	8.0
1982	21500	1600	7.4
1983	22000	1450	6.6
1984	23200	1850	8.0

SERVICE CENTRES

HIGHWAY: 400 **DIRECTION:** South Bound **SITE #** 400-3

LOCATION: Hwy. 89

BETWEEN INTERCHANGES 75 **AND** **COMPANY:** GULF

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	11600	1000	8.6
1980	15800	1400	8.9
1981	12825	1100	8.6
1982	14000	940	6.7
1983	14000	1000	7.1
1984	14825	900	6.1

HIGHWAY: 400 **DIRECTION:** North Bound **SITE #** 400-4

LOCATION: Between Innisfil Beach Road 21 & Hwy. 27

BETWEEN INTERCHANGES 85 **AND** 94 **COMPANY:** GULF

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	10650	1450	13.6
1980	13000	1300	10.0
1981	14150	1200	8.5
1982	14500	1760	12.5
1983	13500	1050	7.8
1984	14375	1050	7.3

S E R V I C E C E N T R E S

HIGHWAY: 401 **DIRECTION:** West Bound **SITE #** E 11 (25)
LOCATION: Between Quebec Boundary & Curry Hill Road
BETWEEN INTERCHANGES 825 **AND** Que. Border **COMPANY:** SHELL

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	4875	700	14.4
1980	6150	850	13.8
1981	5150	900	17.5
1982	4800	700	14.6
1983	5050	775	15.3
1984	5875	1100	18.7

HIGHWAY: 401 **DIRECTION:** West Bound **SITE #** E 9 (26)
LOCATION: Between Upper Canada Road & Dickinson Road
BETWEEN INTERCHANGES 770 **AND** 758 **COMPANY:** TEXACO

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	4525	1250	27.6
1980	5850	1250	21.3
1981	4125	1400	33.9
1982	4100	1375	33.5
1983	4450	900	20.2
1984	4775	900	18.8

SERVICE CENTRES

HIGHWAY: 401 DIRECTION: East Bound SITE # E 10 (27)

LOCATION: Between Hwy. 31 & Upper Canada Road

BETWEEN INTERCHANGES 758 AND 750 COMPANY: SHELL

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	4550	1450	31.9
1980	5325	1300	24.4
1981	4375	1490	33.1
1982	4300	1400	32.5
1983	4450	1100	24.7
1984	4725	950	20.1

HIGHWAY: 401 **DIRECTION:** East Bound **SITE #** E 8 (28)

LOCATION: Between Hwy 2 and Mallorytown Road

BETWEEN INTERCHANGES 685 AND 675 COMPANY: TEXACO

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	4525	1600	35.4
1980	6400	1500	23.4
1981	4975	1600	32.2
1982	5100	1650	32.3
1983	5175	1000	19.3
1984	5400	1050	19.4

SERVICE CENTRES

HIGHWAY: 401 **DIRECTION:** West Bound **SITE #** E 7 (28)

LOCATION: Between Hwy 2 & Cty. Road 5

BETWEEN INTERCHANGES 685 **AND** 675 **COMPANY:** TEXACO

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	4525	1550	34.3
1980	6400	1550	24.0
1981	4975	1300	26.1
1982	4950	1300	26.3
1983	5175	850	16.4
1984	5400	1150	21.3

HIGHWAY: 401 **DIRECTION:** East Bound **SITE #** E 6 (29)

LOCATION: Between Hwy. 38 & Wilton Road

BETWEEN INTERCHANGES 611 **AND** 599 **COMPANY:** TEXACO

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	6500	1550	23.8
1980	8600	1050	12.2
1981	7000	1150	16.4
1982	7225	1200	16.6
1983	7300	1200	16.4
1984	8025	1350	16.8

SERVICE CENTRES

HIGHWAY: 401 **DIRECTION:** West Bound **SITE #** E 5 (30)

LOCATION: Between Hwy. 133/Camden East Road & Palace Road

BETWEEN INTERCHANGES 593 **AND** 582 **COMPANY:** PETRO-CANADA

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	6850	1000	14.6
1980	6850	950	13.9
1981	6750	1000	14.8
1982	7100	1100	15.5
1983	7200	900	12.5
1984	7875	900	11.4

HIGHWAY: 401 **DIRECTION:** East Bound **SITE #** E 4 (31)

LOCATION: Between Wooler Road & Hwy. 30

BETWEEN INTERCHANGES 522 **AND** 509 **COMPANY:** GULF

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	7900	1400	17.7
1980	10250	1350	13.2
1981	8625	1450	16.8
1982	8300	1300	15.6
1983	8750	1450	16.6
1984	9350	1400	15.0

S E R V I C E C E N T R E S

HIGHWAY: 401 **DIRECTION:** West Bound **SITE #** E 3 (31)
LOCATION: Between Wooler Road & Hwy 30
BETWEEN INTERCHANGES 522 **AND** 509 **COMPANY:** SHELL

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	7900	1500	19.0
1980	10250	1650	16.6
1981	8625	1850	21.4
1982	8300	1325	16.0
1983	8750	1300	14.9
1984	9350	2000	21.4

HIGHWAY: 401 **DIRECTION:** East Bound **SITE #** E 2 (32)
LOCATION: Between Wesleyville Road & Newtonville Road
BETWEEN INTERCHANGES 456 **AND** 448 **COMPANY:** TEXACO

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	10050	2100	20.9
1980	11350	1750	15.4
1981	11750	2050	17.4
1982	11300	1520	13.5
1983	11550	2050	17.7
1984	12625	2000	15.8

SERVICE CENTRES

HIGHWAY: 401 **DIRECTION:** West Bound **SITE #** E 1 (33)

LOCATION: Between Newtonville Road & Mill Street

BETWEEN INTERCHANGES 448 **AND** 440 **COMPANY:** ESSO

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	9525	1750	18.4
1980	10300	2000	19.4
1981	10800	2380	22.0
1982	10500	1800	17.1
1983	10750	1650	15.3
1984	12050	2300	19.1

HIGHWAY: 401 **DIRECTION:** West Bound **SITE #** W 1 (34)

LOCATION: Between W. Jct. Hwy 6 & Hwy 24

BETWEEN INTERCHANGES 295 **AND** 282 **COMPANY:** PETRO-CANADA

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	12975	1550	11.9
1980	16100	2050	13.0
1981	16975	2200	13.0
1982	16500	1750	10.6
1983	16750	1850	11.0
1984	17750	2000	11.3

S E R V I C E C E N T R E S

HIGHWAY: 401 **DIRECTION:** East Bound **SITE #** W 2 (34)

LOCATION: Between W. Jct. Hwy 6 & Hwy 24

BETWEEN INTERCHANGES 295 **AND** 282 **COMPANY:** PETRO-CANADA

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	12975	1750	13.5
1980	15825	1850	11.7
1981	16975	1800	10.6
1982	16500	1750	10.6
1983	16750	1850	11.0
1984	17750	2000	11.3

HIGHWAY: 401 **DIRECTION:** West Bound **SITE #** W 3 (35)

LOCATION: Between Sweaburg Road & Foldens Road

BETWEEN INTERCHANGES 230 **AND** 222 **COMPANY:** ESSO

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	12625	1850	14.7
1980	14250	1500	10.5
1981	12150	1900	15.6
1982	11200	1960	17.5
1983	12000	1850	15.4
1984	13350	1700	12.7

S E R V I C E C E N T R E S

HIGHWAY: 401 **DIRECTION:** East Bound **SITE #** W 4 (35)

LOCATION: Between Sweaburg Road & Foldens Road

BETWEEN INTERCHANGES 230 **AND** 222 **COMPANY:** TEXACO

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	12625	1950	15.4
1980	14250	1850	12.9
1981	12150	2250	18.5
1982	11200	1500	13.4
1983	12000	1700	14.2
1984	13350	1900	14.2

HIGHWAY: 401 **DIRECTION:** West Bound **SITE #** W 5 (36)

LOCATION: Between Currie Road & Hwy. 76

BETWEEN INTERCHANGES 149 **AND** 137 **COMPANY:** GULF

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	7475	1850	24.7
1980	8250	2000	24.2
1981	5750	1900	33.0
1982	7175	1950	27.2
1983	7150	1450	20.3
1984	7625	1400	18.4

S E R V I C E C E N T R E S

HIGHWAY: 401 **DIRECTION:** East Bound **SITE #** W 6 (36)

LOCATION: Between Currie Road & Hwy 76

BETWEEN INTERCHANGES 149 **AND** 137 **COMPANY:** SHELL

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	7475	1600	21.4
1980	8250	1600	19.4
1981	5750	1500	26.1
1982	7175	1650	23.0
1983	7150	1200	16.8
1984	7625	1450	19.0

HIGHWAY: 401 **DIRECTION:** West Bound **SITE #** W 7 (37)

LOCATION: Between the East & West Junctions of Hwy 2 at Tilbury

BETWEEN INTERCHANGES 63 **AND** 56 **COMPANY:** PETRO-CANADA

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	6400	1150	18.0
1980	7825	1500	19.2
1981	7400	1300	17.6
1982	5250	935	17.8
1983	5250	950	18.1
1984	5900	1050	17.8

S E R V I C E C E N T R E S

HIGHWAY: 401 **DIRECTION:** East Bound **SITE #** W 8 (37)

LOCATION: Between the East & West Junctions of Hwy 2 at Tilbury

BETWEEN INTERCHANGES 63 **AND** 56 **COMPANY:** SHELL

YEAR	1/2 AADT HIGHWAY SECTION	AADT S.C. RAMP	% OF HIGHWAY AADT
1975	6400	1100	17.2
1980	7825	1000	12.8
1981	7400	1100	14.9
1982	5250	800	15.2
1983	5250	800	15.2
1984	5900	900	15.3

Appendix

GLOSSARY

AADT	Annual Average Daily Traffic; defined as the average twenty-four hour, two way traffic for the period January 1st to December 31st.
ADT	Average Daily Traffic; defined as the average twenty-four hour, two way traffic for the specified period, weekends included.
AWD	Average Weekday Traffic; defined as the average twenty-four hour, two way, weekday traffic for the specified period. Weekends and Statutory holidays are excluded.
DHV	Design Hour Volume; defined as the 30th highest hourly volume of the year measured at a P.C.S. location.
Directional Split	Defined as a measure of the division of traffic in opposing flows.
Foreign Component %	Defined as the number of vehicles without a Canadian licence plate entering Ontario; expressed as a percent of total vehicles.
Highway Section	Defined as a length of highway which has similar traffic volumes and related characteristics.
Sail's	Defined as the number of sailings or crossings made by a ferry.



